

U.S. Environmental
Protection Agency, Region 5

**PRIVATE WELL
SAMPLING REPORT**

Revision 0

Tower Standard Site
Lac du Flambeau Indian Reservation
Lac du Flambeau, Wisconsin

EPA Contract No. EP-W-12-009
Task Order 2012

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Prepared for:

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ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
µg/L	micrograms per liter
bgs	below ground surface
Bristol	Bristol Environmental Remediation Services, LLC
CWE	CWE, Inc.
EDB	1,2-dibromoethane
EPA	U.S. Environmental Protection Agency
LUST	leaking underground storage tank
MS/MSD	matrix spike/matrix spike duplicate
MTBE	methyl tertiary-butyl ether
Pace	Pace Analytical Services, Inc.
PAH	polynuclear aromatic hydrocarbon
QA	quality assurance
QC	quality control
RPD	relative percent difference
SpeeDee	Spee-Dee Delivery Service, Inc.
SW	EPA Solid Waste Method
TBA	Targeted Brownfields Assessment
TO	Task Order
VOC	volatile organic compound

1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) retained Bristol Environmental Remediation Services, LLC (Bristol), to prepare this summary report for the Tower Standard Site located on the Lac du Flambeau Indian Reservation in Lac du Flambeau, Wisconsin (Figure 1). This report describes a round of private-well sampling that was performed at this leaking underground storage tank (LUST) site. The EPA assigned this project to Bristol under Contract No. EP-W-12-009, Task Order (TO) 2012. This report also presents analytical data collected under a previous TO (TO 1019).

The 2015 private well sampling activities were performed in accordance with the *Private Well Sampling Plan* (Bristol, 2015a), *Site Safety and Health Plan* (Bristol, 2015b), and *Quality Assurance Project Plan* (Bristol, 2015c), except where noted.

1.1 OBJECTIVES

The objective was to evaluate whether fuel associated with LUSTs at the Tower Standard Site has impacted private drinking water wells in the vicinity of the site.

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2.0 SITE BACKGROUND

2.1 SITE SETTING AND HISTORY

The Tower Standard Site is located on fee-simple land within the Lac du Flambeau Indian Reservation, at the intersection of State Highway 70 and County Road D near Lac du Flambeau, Wisconsin (Figure 2). State Highway 70 borders the site to the north, Haskell Lake to the south, and Haskell Lake Lodge motel to the southwest. The Lac du Flambeau Band of Lake Superior Chippewa Indians' Land Management Office is northwest of the intersection.

The Tower Standard gas station was built in the early 1940s and operated until 1997. The property held six underground storage tanks, five of which contained leaded or unleaded gasoline. One tank contained waste oil. All tanks were removed in 1997. After the gas station closed, the owner opened a bait and tackle shop called Bill and Linda's Lively Bait and Tackle on the site. This shop operates during the summer months.

2.2 PREVIOUS INVESTIGATIONS

Investigations at the Tower Standard Site began with a preliminary site assessment in 1997. Stained soils and odors were noted and contamination was confirmed through soil sampling. A sample collected from a private well at the site in 1998 contained benzene. The Wisconsin LUST program paid to replace the well. Afterward, monitoring wells were installed, and samples drawn from the wells showed petroleum compounds in the groundwater. Contamination migrated downward in the aquifer; local groundwater flow may have been affected by the pumping of nearby drinking water wells. Subsequently, a groundwater pump and treat system was installed to remove petroleum contamination and prevent offsite migration. The Wisconsin LUST program determined that the site met conditions for closure in 2006, although soil and groundwater contamination was still present.

An unrelated investigation performed under the Targeted Brownfields Assessment (TBA) program began in 2011 in response to a request from the Tribe. A fireworks stand directly across Highway 70 from the Tower Standard Site burned down and the Tribe was concerned about perchlorate contamination leaching to groundwater and surface water. The purpose of the investigation was to identify the horizontal and vertical extent of perchlorate contamination in groundwater and assess potential routes of exposure to local residents or ecological receptors. Much of the work occurred on the south side of Highway 70, near the Tower Standard Site location because groundwater in this area flows, in part, toward Haskell Lake.

While performing vertical aquifer sampling for perchlorates during the TBA investigation, the field geologist noted strong petroleum odors at 30 feet below ground surface (bgs) in one boring and at 40 to 50 feet bgs in another boring. Samples were not analyzed for petroleum compounds at this time due to the nature of the TBA investigation.

The Tribe obtained a contractor to investigate the suspected petroleum contamination. Drilling in the same locations used during the TBA investigation, the contractor discovered a total volatile organic compound (VOC) concentration of over 47,000 parts per billion at 25 feet bgs in one groundwater sample taken near the site. A sample collected immediately adjacent to Haskell Lake found total VOCs of over 2,500 parts per billion at 40 feet in the groundwater.

2.3 CONTAMINANTS OF CONCERN

Contaminants of concern include VOCs, 1,2-dibromoethane (EDB), methyl tertiary-butyl ether (MTBE), lead, cadmium, and polynuclear aromatic hydrocarbons (PAHs). Screening levels for this project for these contaminants include Wisconsin Department of Natural Resources enforcement standards and preventative action limits and EPA maximum contaminant levels and regional screening levels (Bristol, 2015a).

3.0 SITE ACTIVITIES

Tap water from a total of nine private drinking water wells in the vicinity of the Tower Standard LUST Site were sampled between November 2014 and October 2015. This report is primarily concerned with sampling performed in 2015, though analytical results from 2014 are included in Tables 1 and 2 and on Figure 2. The wells to be sampled were selected by a Tribal representative (Ms. Kristen Hanson).

3.1 PRIVATE WELL SAMPLING

On September 24, 2015, Bristol subcontractor CWE, Inc. (CWE) of Weston, Wisconsin sampled five private drinking water wells in the vicinity of the Tower Standard Site. At the time of sampling, CWE could not gain access to two additional wells that were selected for sampling by the Tribal representative. The Tribal representative sampled these wells on October 3 and October 12, 2015.

During the 2015 sampling event, samples were collected from a tap near the pressure tank or other untreated location in the water line in order to collect an untreated water sample. Sampling personnel allowed the tap water to flow a minimum of five minutes to evacuate stagnant water, then used low-flow sampling and a water quality meter to record pH, temperature, conductivity, and turbidity before collecting each sample.

One well (located at 1175 Haskell Lake Landing) was a sand point well that CWE sampled with a low-flow groundwater sampling submersible pump. CWE evacuated one well volume from the sand point well before recording parameters and collecting a sample.

Field forms are provided in Appendix A.

Analytical samples were shipped under chain of custody to Pace Analytical in Minneapolis, Minnesota, for analysis. All well water samples were analyzed VOCs (including EDB and MTBE) by EPA Solid Waste (SW) Test Method 8260, total lead and cadmium by SW6020A, and PAHs by SW8270D SIM.

This was a deviation from the work plan (Bristol, 2015a), which called for analysis of VOCs by EPA drinking water method 524.2 and EDB by SW8011. This deviation was a laboratory error and resulted in higher reporting limits for many VOCs, in some cases reporting limits that exceeded action levels.

Quality assurance (QA) and quality control (QC) samples were collected (including sample duplicates, matrix spike/matrix spike duplicate [MS/MSD] pairs, and trip blanks). Results for QA/QC samples are discussed in Section 4.2.

3.2 DISPOSAL OF INVESTIGATION-DERIVED WASTES

Investigation-derived waste was minimal and consisted primarily of the sampler's gloves and sample tubing. These items were disposed of in a municipal trash receptacle.

4.0 RESULTS

4.1 ANALYTICAL DATA

Select analytical results (typical contaminants of concern for a LUST site) for the 2014 and 2015 sampling rounds are presented in Table 1. All analytical results from both sampling rounds are presented in Table 2. Full laboratory reports for the 2015 sampling event are included in Appendix B.

Lead and xylenes were the only analytes detected in samples collected in 2014 and 2015. Only lead was detected in concentrations that exceeded the action levels. Laboratory reporting limits were higher than the most stringent screening levels for the many analytes, including the following from the select list of analytes presented on Table 1: benzene, EDB, 1,2-dichloroethane, naphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene. Naphthalene was also included in the PAH analysis with a reporting limit below action levels.

Lead was detected in concentrations exceeding screening levels at the Tribal Office for the sample collected in 2014 (118 micrograms per liter [$\mu\text{g}/\text{L}$]), but was detected below screening levels in 2015 at 0.18 $\mu\text{g}/\text{L}$. During sampling in 2014, lead was present in concentrations exceeding the most stringent screening level at 1285 Haskell lake Landing (5.1 $\mu\text{g}/\text{L}$), but was below screening levels in 2015 at 0.57 $\mu\text{g}/\text{L}$.

4.2 QUALITY ASSURANCE/QUALITY CONTROL

The QA/QC samples collected during the 2015 sampling consisted of field duplicate samples, MS/MSD pairs, and trip blanks. Laboratory-prepared method blanks, laboratory control samples, and laboratory control sample duplicates were also part of the QA/QC program. The EPA-approved laboratory used for this project was Pace Analytical Services, Inc. (Pace), located in Minneapolis, Minnesota.

Field duplicates were to be collected at a rate of 10 percent for the entire field effort, while MS/MSD samples were to be collected at a rate of 5 percent, including at least one MS/MSD sample per matrix and analyses. The actual sampling and submittal frequency was 14 percent for field duplicate samples and 14 percent for MS/MSD pairs.

Bristol reviewed the analytical laboratory report and verified the data in accordance with the Quality Assurance Project Plan (Bristol, 2015c). With some exceptions noted below, the data met project data quality objectives. The results are reported in laboratory data packages 10323991, 10324016, 10325028, and 10326135 (Appendix B).

4.2.1 Analytical Data Quality

In general, the data verification found all data is usable as delivered by the analytical laboratory.

Six groundwater samples, a field QC duplicate, an MS/MSD pair, and a trip blank were collected on September 24, 2015, and submitted to Pace for analysis. The samples are identified as 1175 Haskell Lake Landing, 1161 Haskell Lake Road, 1167 Haskell Lake Road, DUP-1 (a field QC duplicate of 1167 Haskell Lake Road), Haskell Lake Lodge, and Tribal Office. The samples were split between two coolers, and subsequently were split between two chains of custody and two laboratory data packages: 10323991 and 10324016.

One groundwater sample was collected on October 3, 2015, and submitted to Pace for analysis. No QA/QC samples were submitted with this sample, which was identified as 14299 State Highway 70. The analytical results were reported in laboratory data package 10325028.

One groundwater sample was collected on October 12, 2015, and submitted to Pace for analysis. No QA/QC samples were submitted with this sample, which was identified as

1285 Haskell Lake Landing. The analytical results were reported in laboratory data package 10326135.

4.2.1.1 Laboratory Data Package 10323991

Data package 10323991 included samples for PAH analysis by SW8270D-SIM. Samples were received at 12.5 degrees Celsius (°C). Samples were shipped by CWE via Spee-Dee Delivery Service, Inc. (SpeeDee) on Friday September 25, but were not received by Pace until Monday September 28. As PAH results were all below detection limits, they were flagged with a UJL to indicate that they are approximate non-detects with a potential low bias.

With the exception of temperature, samples were received in good condition.

All samples were analyzed within hold times. All surrogate recoveries for project samples and QA/QC samples were within control limits. All MS/MSD recoveries and relative percent differences (RPDs) were within control limits. No analytes were detected in the method blank. Precision was deemed acceptable based on LCS recoveries being within control limits.

The RPD between field duplicate samples could not be calculated since the results for all analytes were non-detect.

4.2.1.2 Laboratory Data Package 10324016

Data package 10324016 included samples for cadmium, lead, VOCs, EDB, and MTBE analysis. Samples for VOCs and MTBE were to be analyzed by EPA drinking water method 524.2, and samples for EDB were to be analyzed by SW8011. However, due to a laboratory oversight, all VOCs (including MTBE and EDB) were analyzed by SW8260.

Samples were received at 10.2 °C. Samples were shipped by CWE via SpeeDee on Friday September 25, but were not received by Pace until Monday September 28. As VOC results

were all below detection limits, they were flagged with a UJL to indicate that they are approximate non-detects with a potential low bias. Metals results were not flagged, as these analytes are non-volatile and professional judgement deems that they would not be adversely impacted by the temperature.

The sample receipt form also notes the presence of headspace in the VOC vials. As VOC results have already been flagged with a UJL due to receipt temperature, no additional flagging is required.

With the exception of temperature and headspace, samples were received in good condition.

All samples were analyzed within hold times. All surrogate recoveries for project samples and QA/QC samples were within control limits. All MS/MSD recoveries and RPDs were within control limits. No analytes were detected in the method blanks or trip blank. Precision was deemed acceptable based on LCS recoveries being within control limits.

The RPD between field duplicate samples for VOCs and cadmium could not be calculated since the results were non-detect. The RPD for lead was calculated to be 89%, which exceeds the precision objective of 20%. All detected lead results for this data package have been flagged with a J indicating that they are estimated with an unknown bias.

4.2.1.3 Laboratory Data Package 10325028

Data package 10325028 included one sample for cadmium, lead, VOC, MTBE, EDB, and PAH analysis. Sample was received in good condition and within temperature limits at 5.1 °C. No headspace was observed in vials for VOC analysis.

Sample was analyzed within hold times. All surrogate recoveries for the project sample and QA/QC samples were within control limits. All MS/MSD recoveries and RPDs were within control limits. No analytes were detected in the method blanks. Precision was deemed acceptable based on LCS recoveries being within control limits.

No trip blank was included with the sample delivery. As no VOCs were detected in the project sample, results are not impacted.

4.2.1.4 Laboratory Data Package 10326135

Data package 10326135 included one sample for cadmium, lead, VOC, MTBE, EDB, and PAH analysis. Sample was received in good condition and within temperature limits at 3.5 °C. No headspace was observed in vials for VOC analysis.

Sample was analyzed within hold times. All surrogate recoveries for the project sample and QA/QC samples were within control limits. All MS/MSD recoveries and RPDs were within control limits. No analytes were detected in the method blanks. Precision was deemed acceptable based on LCS recoveries being within control limits.

No trip blank was included with the sample delivery. As no VOCs were detected in the project sample, results are not impacted.

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5.0 CONCLUSIONS AND RECOMMENDATIONS

In two rounds of private well sampling, the only analytes that have been detected are lead and m,p-xylenes. Lead has been detected in all wells sampled and is likely to be naturally occurring. In two samples collected in 2014, at the Tribal Office and at the residence at 1285 Haskell Lake Landing, lead concentrations exceeded screening levels (Table 1). These concentrations were not reproduced in samples collected in 2015 or, in the case of the samples collected at 1285 Haskell Lake Landing, in the duplicate sample. The significant variation in lead concentrations indicates that the concentrations are likely controlled by suspended particles that may or may not end up in sample containers. Bristol recommends that particulate filters be installed at these two locations, if they are not present already.

Xylenes were detected in the primary, but not duplicate, sample collected at 1285 Haskell Lake Landing in 2014. Again in 2015, xylenes were not detected though this may be because concentrations are very close to the reporting limit. The detected concentration ($1.4 \mu\text{g/L}$) was well below the strictest screening level (EPA regional screening level of $190 \mu\text{g/L}$). However, it is possible that the presence of xylenes is related to the release at the Tower Standard Site, which is located approximately 600 feet north of the residence.

Bristol recommends that, at a minimum, annual monitoring continue at the residence at 1285 Haskell Lake Landing. In addition, the Tribe and EPA may elect to continue sampling at the Haskell Lake Lodge and the residence at 14299 State Highway 70 West, which are the two sampling locations located nearest or downgradient of the Tower Standard Site.

Any future sampling performed must use the correct analytical methods to ensure that reporting limits are lower than, or as close as possible to, screening levels. Closer coordination with the laboratory and more explicit directions on the chains of custody should be used to ensure correct methods are used.

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6.0 REFERENCES

- Bristol Environmental Remediation Services, LLC (Bristol). (2015a). *Private Well Sampling Plan*. Revision 1. Tower Standard LUST Site. Task Order 2012. Lac du Flambeau, Wisconsin: EPA.
- Bristol. (2015b). *Site Safety and Health Plan*. Revision 0. Tower Standard LUST Site. Task Order 2012. Lac du Flambeau, Wisconsin: EPA.
- Bristol. (2015c). *Final Quality Assurance Project Plan*. Revision 1. LUST Sites in Indian Country, EPA Region 5: EPA.

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TABLES

Table 1 Select Analytical Results

			Address:	1428-1432 Highway D	14284 State Highway 70 West		14277 State Highway 70 West		
			Description:	Residence	Tribal Office		Haskell Lake Lodge		
			Sample ID:	Tower-01-1114	Tower-02-1114	TRIBAL OFFICE	Tower-03-1114	Tower-04-1114	HASKELL LAKE LODGE
			Sample Date:	11/13/2014	11/13/2014	9/24/2015	11/13/2014	11/13/2014	9/24/2015
Analyte	Units	Screening Levels							
		WDNR ES	WDNR PAL	EPA MCL	EPA RSL				
Metals									
Cadmium	µg/L	5	0.5	5	9.2	--	--	ND (0.080)	--
Lead	µg/L	15	1.5	15	15	0.26	118	0.18 J	0.14
Volatile Organic Compounds									
Benzene	µg/L	5	0.5	5	0.45	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	ND (0.0098)	ND (0.0096)	ND (1.0) UJL	ND (0.0097)
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)
Ethylbenzene	µg/L	700	140	700	1.5	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)
Naphthalene	µg/L	100	10	NE	0.17	ND (1.0)	ND (1.0)	ND (5.0) UJL	ND (1.0)
Toluene	µg/L	800	160	1,000	1,100	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)
m,p-Xylene	µg/L	2,000	400	10,000	190	ND (1.0)	ND (1.0)	ND (2.0) UJL	ND (1.0)
o-Xylene	µg/L	2,000	400	10,000	190	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)
Xylene (Total)	µg/L	2,000	400	10,000	190	ND (1.5)	ND (1.5)	--	ND (1.5)
Polynuclear Aromatic Hydrocarbons									
Acenaphthene	µg/L	NE	NE	NE	530	--	--	ND (0.041) UJL	--
Acenaphthylene	µg/L	NE	NE	NE	NE	--	--	ND (0.041) UJL	--
Anthracene	µg/L	3,000	600	NE	1800	--	--	ND (0.041) UJL	--
Benzo(a)anthracene	µg/L	NE	NE	NE	0.012	--	--	ND (0.041) UJL	--
Benzo(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	--	--	ND (0.041) UJL	--
Benzo(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	--	--	ND (0.041) UJL	--
Benzo(g,h,i)perylene	µg/L	NE	NE	NE	NE	--	--	ND (0.041) UJL	--
Benzo(k)fluoranthene	µg/L	NE	NE	NE	0.34	--	--	ND (0.041) UJL	--
Chrysene	µg/L	0.2	0.02	NE	3.4	--	--	ND (0.041) UJL	--
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	--	--	ND (0.041) UJL	--
Fluoranthene	µg/L	NE	NE	NE	800	--	--	ND (0.041) UJL	--
Fluorene	µg/L	400	80	NE	290	--	--	ND (0.041) UJL	--
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	--	--	ND (0.041) UJL	--
Naphthalene	µg/L	100	10	NE	0.17	--	--	ND (0.041) UJL	--
Phenanthrene	µg/L	NE	NE	NE	NE	--	--	ND (0.041) UJL	--
Pyrene	µg/L	250	50	NE	120	--	--	ND (0.041) UJL	--

Notes:

Bolded non detects have reporting limits that exceed screening levels

Yellow highlight indicates detection

Red highlight indicates detection that exceeds screening levels

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

ES = enforcement standard

ID = identification

J = result is an estimated quantity with an unknown bias

MCL = maximum contaminant level

ND = not detected above action limit (in parentheses)

NE = not established

PAL = preventative action limit

RSL = regional screening level

UJL = result is an estimated non-detect with a potential low bias

WDNR = Wisconsin Department of Natural Resources

Table 1 Select Analytical Results (continued)

Address:			1167 Haskell Lake Landing			14436 Haskell Heights Drive	
Description:			Residence			Residence	
Sample ID:			Tower-05-1114	1167 HASKELL LAKE RD	DUP-1	Tower-06-1114	
Sample Date:			11/13/2014	9/24/2015	9/24/2015	11/13/2014	
Analyte	Units	Screening Levels	WDNR ES	WDNR PAL	EPA MCL	EPA RSL	
Metals							
Cadmium	µg/L	5	0.5	5	9.2	--	ND (0.080)
Lead	µg/L	15	1.5	15	15	0.069 J	0.15 J
Volatile Organic Compounds							
Benzene	µg/L	5	0.5	5	0.45	ND (0.5)	ND (1.0) UJL
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	ND (0.0098)	ND (1.0) UJL
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	ND (0.5)	ND (1.0) UJL
Ethylbenzene	µg/L	700	140	700	1.5	ND (0.5)	ND (1.0) UJL
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (0.5)	ND (1.0) UJL
Naphthalene	µg/L	100	10	NE	0.17	ND (1.0)	ND (5.0) UJL
Toluene	µg/L	800	160	1,000	1,100	ND (0.5)	ND (1.0) UJL
m,p-Xylene	µg/L	2,000	400	10,000	190	ND (1.0)	ND (2.0) UJL
o-Xylene	µg/L	2,000	400	10,000	190	ND (0.5)	ND (1.0) UJL
Xylene (Total)	µg/L	2,000	400	10,000	190	ND (1.5)	--
Polynuclear Aromatic Hydrocarbons							
Acenaphthene	µg/L	NE	NE	NE	530	--	ND (0.044) UJL
Acenaphthylene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL
Anthracene	µg/L	3,000	600	NE	1800	--	ND (0.044) UJL
Benzo(a)anthracene	µg/L	NE	NE	NE	0.012	--	ND (0.044) UJL
Benzo(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	--	ND (0.044) UJL
Benzo(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	--	ND (0.044) UJL
Benzo(g,h,i)perylene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL
Benzo(k)fluoranthene	µg/L	NE	NE	NE	0.34	--	ND (0.044) UJL
Chrysene	µg/L	0.2	0.02	NE	3.4	--	ND (0.044) UJL
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	--	ND (0.044) UJL
Fluoranthene	µg/L	NE	NE	NE	800	--	ND (0.044) UJL
Fluorene	µg/L	400	80	NE	290	--	ND (0.044) UJL
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	--	ND (0.044) UJL
Naphthalene	µg/L	100	10	NE	0.17	--	ND (0.044) UJL
Phenanthrene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL
Pyrene	µg/L	250	50	NE	120	--	ND (0.044) UJL

Notes:

Bolded non detects have reporting limits that exceed screening levels

Yellow highlight indicates detection

Red highlight indicates detection that exceeds screening levels

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

ES = enforcement standard

ID = identification

J = result is an estimated quantity with an unknown bias

MCL = maximum contaminant level

ND = not detected above action limit (in parentheses)

NE = not established

PAL = preventative action limit

RSL = regional screening level

WDNR = Wisconsin Department of Natural Resources

Table 1 Select Analytical Results (continued)

Address:						1285 Haskell Lake Landing			1161 Haskell Lake Landing	
Description:						Residence			Residence	
Sample ID:						Tower-07-1114	Tower-08-1114	1285 HASKELL LAKE LANDING	Tower-09-1114	1161 HASKELL LAKE RD
Sample Date:						11/25/2014	11/25/2014	10/12/2015	11/26/2014	9/24/2015
Analyte	Units	Screening Levels				--	--	--	--	--
Metals						WDNR ES	WDNR PAL	EPA MCL	EPA RSL	
Cadmium	µg/L	5	0.5	5	9.2	--	--	ND (3.0)	--	ND (0.080)
Lead	µg/L	15	1.5	15	15	5.1	0.57 B	ND (10.0)	0.12 B	0.78 J
Volatile Organic Compounds										
Benzene	µg/L	5	0.5	5	0.45	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (1.0) UJL
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	ND (0.0098)	ND (0.0098)	ND (1.0)	ND (0.0098)	ND (1.0) UJL
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (1.0) UJL
Ethylbenzene	µg/L	700	140	700	1.5	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (1.0) UJL
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (1.0) UJL
Naphthalene	µg/L	100	10	NE	0.17	ND (1.0)	ND (1.0)	ND (4.0)	ND (1.0)	ND (5.0) UJL
Toluene	µg/L	800	160	1,000	1,100	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (1.0) UJL
m,p-Xylene	µg/L	2,000	400	10,000	190	1.4 J	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0) UJL
o-Xylene	µg/L	2,000	400	10,000	190	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0) UJL
Xylene (Total)	µg/L	2,000	400	10,000	190	1.4 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0) UJL
Polynuclear Aromatic Hydrocarbons										
Acenaphthene	µg/L	NE	NE	NE	530	--	--	ND (0.045)	--	ND (0.042) UJL
Acenaphthylene	µg/L	NE	NE	NE	NE	--	--	ND (0.045)	--	ND (0.042) UJL
Anthracene	µg/L	3,000	600	NE	1800	--	--	ND (0.045)	--	ND (0.042) UJL
Benzo(a)anthracene	µg/L	NE	NE	NE	0.012	--	--	ND (0.045)	--	ND (0.042) UJL
Benzo(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	--	--	ND (0.045)	--	ND (0.042) UJL
Benzo(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	--	--	ND (0.045)	--	ND (0.042) UJL
Benzo(g,h,i)perylene	µg/L	NE	NE	NE	NE	--	--	ND (0.045)	--	ND (0.042) UJL
Benzo(k)fluoranthene	µg/L	NE	NE	NE	0.34	--	--	ND (0.045)	--	ND (0.042) UJL
Chrysene	µg/L	0.2	0.02	NE	3.4	--	--	ND (0.045)	--	ND (0.042) UJL
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	--	--	ND (0.045)	--	ND (0.042) UJL
Fluoranthene	µg/L	NE	NE	NE	800	--	--	ND (0.045)	--	ND (0.042) UJL
Fluorene	µg/L	400	80	NE	290	--	--	ND (0.045)	--	ND (0.042) UJL
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	--	--	ND (0.045)	--	ND (0.042) UJL
Naphthalene	µg/L	100	10	NE	0.17	--	--	ND (0.045)	--	ND (0.042) UJL
Phenanthrene	µg/L	NE	NE	NE	NE	--	--	ND (0.045)	--	ND (0.042) UJL
Pyrene	µg/L	250	50	NE	120	--	--	ND (0.045)	--	ND (0.042) UJL

Notes:

Bolded non detects have reporting limits that exceed screening levels

Yellow highlight indicates detection

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PAL = preventative action limit

RSL = regional screening level

WDNR = Wisconsin Department of Natural Resources

Table 1 Select Analytical Results (continued)

			Address:	1175 Haskell Lake Landing	14299 State Highway 70 West
			Description:	Sand point well	Residence
			Sample ID:	1175 HASKELL LAKE LANDING	14299 STATE HIGHWAY 70
			Sample Date:	9/24/2015	10/3/2015
Analyte	Units	Screening Levels			
		WDNR ES	WDNR PAL	EPA MCL	EPA RSL
Metals					
Cadmium	µg/L	5	0.5	5	9.2
Lead	µg/L	15	1.5	15	15
Volatile Organic Compounds					
Benzene	µg/L	5	0.5	5	0.45
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17
Ethylbenzene	µg/L	700	140	700	1.5
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14
Naphthalene	µg/L	100	10	NE	0.17
Toluene	µg/L	800	160	1,000	1,100
m,p-Xylene	µg/L	2,000	400	10,000	190
o-Xylene	µg/L	2,000	400	10,000	190
Xylene (Total)	µg/L	2,000	400	10,000	190
Polynuclear Aromatic Hydrocarbons					
Acenaphthene	µg/L	NE	NE	NE	530
Acenaphthylene	µg/L	NE	NE	NE	ND (0.040) UJL
Anthracene	µg/L	3,000	600	NE	1800
Benzo(a)anthracene	µg/L	NE	NE	NE	0.012
Benzo(a)pyrene	µg/L	0.2	0.02	0.2	0.0034
Benzo(b)fluoranthene	µg/L	0.2	0.02	NE	0.034
Benzo(g,h,i)perylene	µg/L	NE	NE	NE	ND (0.040) UJL
Benzo(k)fluoranthene	µg/L	NE	NE	NE	0.34
Chrysene	µg/L	0.2	0.02	NE	3.4
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034
Fluoranthene	µg/L	NE	NE	NE	800
Fluorene	µg/L	400	80	NE	290
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034
Naphthalene	µg/L	100	10	NE	0.17
Phenanthrene	µg/L	NE	NE	NE	ND (0.040) UJL
Pyrene	µg/L	250	50	NE	120

Notes:

Bolded non detects have reporting limits that exceed screening levels

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PAL = preventative action limit

RSL = regional screening level

WDNR = Wisconsin Department of Natural Resources

Table 2 Complete Analytical Results

Address:			1428-1432 Highway D	14284 State Highway 70 West			14277 State Highway 70 West			
Description:			Residence	Tribal Office			Haskell Lake Lodge			
Sample ID:			Tower-01-1114	Tower-02-1114	TRIBAL OFFICE	Tower-03-1114	Tower-04-1114	HASSELL LAKE LODGE		
Sample Date:			11/13/2014	11/13/2014	9/24/2015	11/13/2014	11/13/2014	9/24/2015		
Analyte	Units	Screening Levels	WDNR ES	WDNR PAL	EPA MCL	EPA RSL				
Metals										
Cadmium	µg/L	5	0.5	5	9.2	--	--	ND (0.080)	--	--
Lead	µg/L	15	1.5	15	15	0.26	118	0.18 J	0.14	0.16
Volatile Organic Compounds										
Acetone	µg/L	9,000	1,800	NE	14,000	ND (20)	ND (20)	ND (20.0) UJL	ND (20)	ND (20.0) UJL
Acrylonitrile	µg/L	NE	NE	NE	0.052	ND (10)	ND (10)	--	ND (10)	ND (10)
Allyl chloride	µg/L	NE	NE	NE	0.73	--	--	ND (5.0) UJL	--	ND (5.0) UJL
Benzene	µg/L	5	0.5	5	0.45	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5) UJL
Bromobenzene	µg/L	NE	NE	NE	62	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
Bromoform	µg/L	4.4	0.44	NE	3.3	ND (4.0)	ND (4.0)	ND (1.0) UJL	ND (4.0)	ND (1.0) UJL
Bromochloromethane	µg/L	0.6	0.06	NE	0.13	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
Bromodichloromethane	µg/L	10	1	NE	7.5	ND (4.0)	ND (4.0)	ND (5.0) UJL	ND (4.0)	ND (5.0) UJL
2-Butanone (MEK)	µg/L	4,000	800	NE	5,600	ND (5.0)	ND (5.0)	ND (20.0) UJL	ND (5.0)	ND (20.0) UJL
n-Butylbenzene	µg/L	NE	NE	NE	1,000	ND (1.0)	ND (1.0)	ND (1.0) UJL	ND (1.0)	ND (1.0) UJL
sec-Butylbenzene	µg/L	NE	NE	NE	2,000	ND (0.5)	ND (0.5)	ND (5.0) UJL	ND (0.5)	ND (5.0) UJL
tert-Butylbenzene	µg/L	NE	NE	NE	690	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
Carbon disulfide	µg/L	1,000	200	NE	810	ND (1.0)	ND (1.0)	--	ND (1.0)	ND (1.0)
Carbon tetrachloride	µg/L	5	0.5	5	0.45	ND (1.0)	ND (1.0)	ND (1.0) UJL	ND (1.0)	ND (1.0) UJL
Chlorobenzene	µg/L	NE	NE	100	78	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
Chloroethane (Ethyl Chloride)	µg/L	400	80	NE	21,000	ND (1.0)	ND (1.0)	ND (1.0) UJL	ND (1.0)	ND (1.0) UJL
Chloroform	µg/L	6	0.6	NE	0.22	ND (0.5)	ND (0.5)	ND (5.0) UJL	ND (0.5)	ND (5.0) UJL
Chloromethane	µg/L	30	3	NE	190	ND (4.0)	ND (4.0)	ND (1.0) UJL	ND (4.0)	ND (4.0)
2-Chlorotoluene	µg/L	NE	NE	NE	240	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
4-Chlorotoluene	µg/L	NE	NE	NE	250	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
1,2-Dibromo-3-chloropropane	µg/L	0.2	0.02	0.2	0.000334	ND (4.0)	ND (4.0)	ND (5.0) UJL	ND (4.0)	ND (5.0) UJL
Dibromochloromethane	µg/L	60	6	NE	0.17	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	ND (0.0098)	ND (0.0096)	ND (1.0) UJL	ND (0.0097)	ND (0.0098)
Dibromomethane	µg/L	NE	NE	NE	8	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
trans-1,4-Dichloro-2-butene	µg/L	NE	NE	NE	0.0013	ND (10)	ND (10)	--	ND (10)	ND (10)
1,2-Dichlorobenzene	µg/L	600	60	600	300	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
1,3-Dichlorobenzene	µg/L	600	120	NE	NE	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
1,4-Dichlorobenzene	µg/L	75	15	75	0.48	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
Dichlorodifluoromethane	µg/L	1,000	200	NE	200	ND (1.0)	ND (1.0)	ND (1.0) UJL	ND (1.0)	ND (1.0) UJL
1,1-Dichloroethane	µg/L	850	85	NE	2.7	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
1,1-Dichloroethene	µg/L	NE	NE	7	280	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL
4-Methyl-2-pentanone (MIBK)	µg/L	500	50	NE	1,200	ND (5.0)	ND (5.0)	ND (5.0) UJL	ND (5.0)	ND (5.0) UJL
Methylene Chloride	µg/L	5	0.5	NE	11.4	ND (4.0)	ND (4.0)	ND (1.0) UJL	ND (4.0)	ND (1.0) UJL
2-Methylnaphthalene	µg/L	NE	NE	NE	36	--	--	--	--	--
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (1.0) UJL

Notes:

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WDNR = Wisconsin Department of Natural Resources

Table 2 Complete Analytical Results (continued)

Address:			1428-1432 Highway D	14284 State Highway 70 West			14277 State Highway 70 West				
Description:			Residence	Tribal Office			Haskell Lake Lodge				
Sample ID:			Tower-01-1114	Tower-02-1114	TRIBAL OFFICE	Tower-03-1114	Tower-04-1114	HASKELL LAKE LODGE			
Sample Date:			11/13/2014	11/13/2014	9/24/2015	11/13/2014	11/13/2014	9/24/2015			
Analyte	Units	Screening Levels	WDNR ES	WDNR PAL	EPA MCL	EPA RSL					
Volatile Organic Compounds (Continued)											
Naphthalene	µg/L	100	10	NE	0.17	ND (1.0)	ND (1.0)	ND (5.0) UJL	ND (1.0)	ND (1.0)	ND (5.0) UJL
2-Nitropropane	µg/L	NE	NE	NE	0.0021	ND (10)	ND (10)	--	ND (10)	ND (10)	--
n-Propylbenzene	µg/L	NE	NE	NE	660	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
Styrene	µg/L	100	10	100	1,200	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
1,1,1,2-Tetrachloroethane	µg/L	70	7	NE	0.57	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
1,1,2,2-Tetrachloroethane	µg/L	0.2	0.02	NE	0.076	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
Tetrachloroethene	µg/L	5	0.5	5	11	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
Tetrahydrofuran	µg/L	50	10	NE	3,400	--	--	ND (5.0) UJL	--	--	ND (5.0) UJL
Toluene	µg/L	800	160	1,000	1,100	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
1,2,3-Trichlorobenzene	µg/L	NE	NE	NE	7	ND (0.5)	ND (0.5)	ND (5.0) UJL	ND (0.5)	ND (0.5)	ND (5.0) UJL
1,2,4-Trichlorobenzene	µg/L	70	14	70	1.1	ND (0.5)	ND (0.5)	ND (5.0) UJL	ND (0.5)	ND (0.5)	ND (5.0) UJL
1,1,1-Trichloroethane	µg/L	200	40	200	8,000	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
1,1,2-Trichloroethane	µg/L	5	0.5	5	0.28	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
Trichloroethylene	µg/L	5	0.5	5	0.493	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
Trichlorofluoromethane	µg/L	NE	NE	NE	1,100	ND (1.0)	ND (1.0)	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (1.0) UJL
1,2,3-Trichloropropane	µg/L	60	12	NE	0.00075	ND (4.0)	ND (4.0)	ND (1.0) UJL	ND (4.0)	ND (4.0)	ND (1.0) UJL
1,1,2-Trichlorotrifluoroethane	µg/L	NE	NE	NE	NE	--	--	ND (5.0) UJL	--	--	ND (5.0) UJL
1,2,4-Trimethylbenzene	µg/L	480	96	NE	0.00075	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
1,3,5-Trimethylbenzene	µg/L	480	96	NE	120	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
Vinyl chloride	µg/L	0.2	0.02	2	0.0188	ND (0.2)	ND (0.2)	ND (1.0) UJL	ND (0.2)	ND (0.2)	ND (1.0) UJL
m,p-Xylene	µg/L	2,000	400	10,000	190	ND (1.0)	ND (1.0)	ND (2.0) UJL	ND (1.0)	ND (1.0)	ND (2.0) UJL
o-Xylene	µg/L	2,000	400	10,000	190	ND (0.5)	ND (0.5)	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0) UJL
Xylene (Total)	µg/L	2,000	400	10,000	190	ND (1.5)	ND (1.5)	--	ND (1.5)	ND (1.5)	--
Polynuclear Aromatic Hydrocarbons											
Acenaphthene	µg/L	NE	NE	NE	530	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Acenaphthylene	µg/L	NE	NE	NE	NE	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Anthracene	µg/L	3,000	600	NE	1800	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Benzo(a)anthracene	µg/L	NE	NE	NE	0.012	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Benzo(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Benzo(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Benzo(g,h,i)perylene	µg/L	NE	NE	NE	NE	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Benzo(k)fluoranthene	µg/L	NE	NE	NE	0.34	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Chrysene	µg/L	0.2	0.02	NE	3.4	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Fluoranthene	µg/L	NE	NE	NE	800	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Fluorene	µg/L	400	80	NE	290	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Naphthalene	µg/L	100	10	NE	0.17	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Phenanthrene	µg/L	NE	NE	NE	NE	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL
Pyrene	µg/L	250	50	NE	120	--	--	ND (0.041) UJL	--	--	ND (0.043) UJL

Notes:

Bolded non detects have reporting limits that exceed screening levels

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-- = Not analyzed

µg/L = micrograms per liter

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Table 2 Complete Analytical Results (continued)

Address:			1167 Haskell Lake Landing			14436 Haskell Heights Drive			1285 Haskell Lake Landing		
Description:			Residence			Residence			Residence		
Sample ID:			Tower-05-1114	1167 HASKELL LAKE RD	DUP-1	Tower-06-1114	Tower-07-1114	Tower-08-1114	1285 HASKELL LAKE LANDING		
Sample Date:			11/13/2014	9/24/2015	9/24/2015	11/13/2014	11/25/2014	11/25/2014	10/12/2015		
Analyte	Units	Screening Levels	WDNR ES	WDNR PAL	EPA MCL	EPA RSL					
Metals											
Cadmium	µg/L	5	0.5	5	9.2	--	ND (0.080)	ND (0.080)	--	--	--
Lead	µg/L	15	1.5	15	15	0.069 J	0.15 J	0.39 J	0.78	5.1	0.57 B
Volatile Organic Compounds											
Acetone	µg/L	9,000	1,800	NE	14,000	ND (20)	ND (20.0) UJL	ND (20.0) UJL	ND (20)	ND (20)	ND (20.0)
Acrylonitrile	µg/L	NE	NE	NE	0.052	ND (10)	--	--	ND (10)	ND (10)	ND (10)
Allyl chloride	µg/L	NE	NE	NE	0.73	--	ND (5.0) UJL	ND (5.0) UJL	--	--	ND (4.0)
Benzene	µg/L	5	0.5	5	0.45	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
Bromobenzene	µg/L	NE	NE	NE	62	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
Bromoform	µg/L	0.6	0.06	NE	0.13	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
Bromochloromethane	µg/L	4.4	0.44	NE	3.3	ND (4.0)	ND (1.0) UJL	ND (1.0) UJL	ND (4.0)	ND (4.0)	ND (4.0)
Bromomethane	µg/L	10	1	NE	7.5	ND (4.0)	ND (5.0) UJL	ND (5.0) UJL	ND (4.0)	ND (4.0)	ND (4.0)
2-Butanone (MEK)	µg/L	4,000	800	NE	5,600	ND (5.0)	ND (20.0) UJL	ND (20.0) UJL	ND (5.0)	ND (5.0)	ND (5.0)
n-Butylbenzene	µg/L	NE	NE	NE	1,000	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (1.0)
sec-Butylbenzene	µg/L	NE	NE	NE	2,000	ND (0.5)	ND (5.0) UJL	ND (5.0) UJL	ND (0.5)	ND (1.0)	ND (1.0)
tert-Butylbenzene	µg/L	NE	NE	NE	690	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
Carbon disulfide	µg/L	1,000	200	NE	810	ND (1.0)	--	--	ND (1.0)	ND (1.0)	--
Carbon tetrachloride	µg/L	5	0.5	5	0.45	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (1.0)
Chlorobenzene	µg/L	NE	NE	100	78	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
Chloroethane (Ethyl Chloride)	µg/L	400	80	NE	21,000	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (4.0)
Chloroform	µg/L	6	0.6	NE	0.22	ND (0.5)	ND (5.0) UJL	ND (5.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
Chloromethane	µg/L	30	3	NE	190	ND (4.0)	ND (1.0) UJL	ND (1.0) UJL	ND (4.0)	ND (4.0)	ND (4.0)
2-Chlorotoluene	µg/L	NE	NE	NE	240	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
4-Chlorotoluene	µg/L	NE	NE	NE	250	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
1,2-Dibromo-3-chloropropane	µg/L	0.2	0.02	0.2	0.000334	ND (4.0)	ND (5.0) UJL	ND (5.0) UJL	ND (4.0)	ND (4.0)	ND (4.0)
Dibromochloromethane	µg/L	60	6	NE	0.17	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	ND (0.0098)	ND (1.0) UJL	ND (1.0) UJL	ND (0.0098)	ND (0.0098)	ND (1.0)
Dibromomethane	µg/L	NE	NE	NE	8	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (4.0)
trans-1,4-Dichloro-2-butene	µg/L	NE	NE	NE	0.0013	ND (10)	--	--	ND (10)	ND (10)	--
1,2-Dichlorobenzene	µg/L	600	60	600	300	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
1,3-Dichlorobenzene	µg/L	600	120	NE	NE	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
1,4-Dichlorobenzene	µg/L	75	15	75	0.48	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
Dichlorodifluoromethane	µg/L	1,000	200	NE	200	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	µg/L	850	85	NE	2.7	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
1,1-Dichloroethene	µg/L	NE	NE	7	280	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
4-Methyl-2-pentanone (MIBK)	µg/L	500	50	NE	1,200	ND (5.0)	ND (5.0) UJL	ND (5.0) UJL	ND (5.0)	ND (20)	ND (20)
Methylene Chloride	µg/L	5	0.5	NE	11.4	ND (4.0)	ND (1.0) UJL	ND (1.0) UJL	ND (4.0)	ND (4.0)	ND (4.0)
2-Methylnaphthalene	µg/L	NE	NE	NE	36	--	--	--	--	--	--
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)

Notes:

Bolded non detects have reporting limits that exceed screening levels

Yellow highlight indicates detection

Red highlight indicates detection that exceeds screening levels

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

ES = enforcement standard

ID = identification

J = result is an estimated quantity with an unknown bias

MCL = maximum contaminant level

ND = not detected above action limit (in parentheses)

NE = not established

PAL = preventative action limit

RSL = regional screening level

UJL = result is an estimated non-detect with a low bias

WDNR = Wisconsin Department of Natural Resources

Table 2 Complete Analytical Results (continued)

Address:			1167 Haskell Lake Landing				14436 Haskell Heights Drive		1285 Haskell Lake Landing		
Description:			Residence				Residence		Residence		
Sample ID:			Tower-05-1114	1167 HASKELL LAKE RD	DUP-1	Tower-06-1114		Tower-07-1114	Tower-08-1114	1285 HASKELL LAKE LANDING	
Sample Date:			11/13/2014	9/24/2015	9/24/2015	11/13/2014		11/25/2014	11/25/2014	10/12/2015	
Analyte	Units	Screening Levels	WDNR ES	WDNR PAL	EPA MCL	EPA RSL					
Volatile Organic Compounds (Continued)											
Naphthalene	µg/L	100	10	NE	0.17	ND (1.0)	ND (5.0) UJL	ND (5.0) UJL	ND (1.0)	ND (1.0)	ND (1.0)
2-Nitropropane	µg/L	NE	NE	NE	0.0021	ND (10)	--	--	ND (10)	ND (10)	ND (10)
n-Propylbenzene	µg/L	NE	NE	NE	660	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (1.0)	ND (1.0)
Styrene	µg/L	100	10	100	1,200	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (1.0)	ND (1.0)
1,1,1,2-Tetrachloroethane	µg/L	70	7	NE	0.57	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
1,1,2,2-Tetrachloroethane	µg/L	0.2	0.02	NE	0.076	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
Tetrachloroethene	µg/L	5	0.5	5	11	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
Tetrahydrofuran	µg/L	50	10	NE	3,400	--	ND (5.0) UJL	ND (5.0) UJL	--	--	--
Toluene	µg/L	800	160	1,000	1,100	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
1,2,3-Trichlorobenzene	µg/L	NE	NE	NE	7	ND (0.5)	ND (5.0) UJL	ND (5.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
1,2,4-Trichlorobenzene	µg/L	70	14	70	1.1	ND (0.5)	ND (5.0) UJL	ND (5.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
1,1,1-Trichloroethane	µg/L	200	40	200	8,000	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
1,1,2-Trichloroethane	µg/L	5	0.5	5	0.28	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (1.0)
Trichloroethene	µg/L	5	0.5	5	0.493	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (0.5)	ND (0.40)
Trichlorofluoromethane	µg/L	NE	NE	NE	1,100	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (0.5)	ND (1.0)
1,2,3-Trichloropropane	µg/L	60	12	NE	0.00075	ND (4.0)	ND (1.0) UJL	ND (1.0) UJL	ND (4.0)	ND (4.0)	ND (4.0)
1,1,2-Trichlorotrifluoroethane	µg/L	NE	NE	NE	NE	--	ND (5.0) UJL	ND (5.0) UJL	--	--	ND (1.0)
1,2,4-Trimethylbenzene	µg/L	480	96	NE	0.00075	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (1.0)	ND (1.0)
1,3,5-Trimethylbenzene	µg/L	480	96	NE	120	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (1.0)	ND (1.0)
Vinyl chloride	µg/L	0.2	0.02	2	0.0188	ND (0.2)	ND (1.0) UJL	ND (1.0) UJL	ND (0.2)	ND (0.2)	ND (0.40)
m,p-Xylene	µg/L	2,000	400	10,000	190	ND (1.0)	ND (2.0) UJL	ND (2.0) UJL	ND (1.0)	1.4 J	ND (2.0)
o-Xylene	µg/L	2,000	400	10,000	190	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.5)	ND (1.0)	--
Xylene (Total)	µg/L	2,000	400	10,000	190	ND (1.5)	--	--	ND (1.5)	1.4 J	ND (3.0)
Polynuclear Aromatic Hydrocarbons											
Acenaphthene	µg/L	NE	NE	NE	530	--	ND (0.044) UJL	ND (0.045) UJL	--	--	--
Acenaphthylene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Anthracene	µg/L	3,000	600	NE	1800	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Benzo(a)anthracene	µg/L	NE	NE	NE	0.012	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Benzo(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Benzo(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Benzo(g,h,i)perylene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Benzo(k)fluoranthene	µg/L	NE	NE	NE	0.34	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Chrysene	µg/L	0.2	0.02	NE	3.4	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Fluoranthene	µg/L	NE	NE	NE	800	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Fluorene	µg/L	400	80	NE	290	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Naphthalene	µg/L	100	10	NE	0.17	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Phenanthrene	µg/L	NE	NE	NE	NE	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)
Pyrene	µg/L	250	50	NE	120	--	ND (0.044) UJL	ND (0.045) UJL	--	--	ND (0.045)

Notes:

Bolded non detects have reporting limits that exceed screening levels

Yellow highlight indicates detection

Red highlight indicates detection that exceeds screening levels

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

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ID = identification

J = result is an estimated quantity with an unknown bias

MCL = maximum contaminant level

ND = not detected above action limit (in parentheses)

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PAL = preventative action limit

RSL = regional screening level

UJL = result is an estimated non-detect with a low bias

WDNR = Wisconsin Department of Natural Resources

Table 2 Complete Analytical Results (continued)

			Address:		1161 Haskell Lake Landing		1175 Haskell Lake Landing		14299 State Highway 70 West	
			Description:		Residence		Sand point well		Residence	
			Sample ID:		Tower-09-1114	1161 HASKELL LAKE RD	1175 HASKELL LAKE LANDING		14299 STATE HIGHWAY 70	
			Sample Date:		11/26/2014	9/24/2015	9/24/2015		10/3/2015	
Analyte	Units	Screening Levels								
		WDNR ES	WDNR PAL	EPA MCL	EPA RSL					
Metals										
Cadmium	µg/L	5	0.5	5	9.2	--	ND (0.080)	ND (0.080)	ND (0.080)	ND (0.080)
Lead	µg/L	15	1.5	15	15	0.12 B	0.78 J	1.3 J	0.49	
Volatile Organic Compounds										
Acetone	µg/L	9,000	1,800	NE	14,000	ND (20)	ND (20.0) UJL	ND (20.0) UJL	ND (20.0)	ND (20.0)
Acrylonitrile	µg/L	NE	NE	NE	0.052	ND (10)	--	--	--	--
Allyl chloride	µg/L	NE	NE	NE	0.73	--	ND (5.0) UJL	ND (5.0) UJL	ND (4.0)	
Benzene	µg/L	5	0.5	5	0.45	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)
Bromobenzene	µg/L	NE	NE	NE	62	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)
Bromoform	µg/L	0.6	0.06	NE	0.13	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)
Bromomethane	µg/L	4.4	0.44	NE	3.3	ND (4.0)	ND (1.0) UJL	ND (1.0) UJL	ND (4.0)	ND (4.0)
Bromomethane	µg/L	10	1	NE	7.5	ND (4.0)	ND (5.0) UJL	ND (5.0) UJL	ND (4.0)	ND (4.0)
2-Butanone (MEK)	µg/L	4,000	800	NE	5,600	ND (5.0)	ND (20.0) UJL	ND (20.0) UJL	ND (5.0)	
n-Butylbenzene	µg/L	NE	NE	NE	1,000	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)
sec-Butylbenzene	µg/L	NE	NE	NE	2,000	ND (1.0)	ND (5.0) UJL	ND (5.0) UJL	ND (1.0)	
tert-Butylbenzene	µg/L	NE	NE	NE	690	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)
Carbon disulfide	µg/L	1,000	200	NE	810	ND (1.0)	--	--	--	--
Carbon tetrachloride	µg/L	5	0.5	5	0.45	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	ND (1.0)
Chlorobenzene	µg/L	NE	NE	100	78	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	
Chloroethane (Ethyl Chloride)	µg/L	400	80	NE	21,000	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	
Chloroform	µg/L	6	0.6	NE	0.22	ND (0.5)	ND (5.0) UJL	ND (5.0) UJL	ND (1.0)	ND (1.0)
Chloromethane	µg/L	30	3	NE	190	ND (4.0)	ND (1.0) UJL	ND (1.0) UJL	ND (4.0)	
2-Chlorotoluene	µg/L	NE	NE	NE	240	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	
4-Chlorotoluene	µg/L	NE	NE	NE	250	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	
1,2-Dibromo-3-chloropropane	µg/L	0.2	0.02	0.2	0.000334	ND (4.0)	ND (5.0) UJL	ND (5.0) UJL	ND (4.0)	
Dibromochloromethane	µg/L	60	6	NE	0.17	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	
1,2-Dibromoethane (EDB)	µg/L	0.05	0.005	0.05	0.0075	ND (0.0098)	ND (1.0) UJL	ND (1.0) UJL		
Dibromomethane	µg/L	NE	NE	NE	8	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (4.0)	
trans-1,4-Dichloro-2-butene	µg/L	NE	NE	NE	0.0013	ND (10)	--	--	--	--
1,2-Dichlorobenzene	µg/L	600	60	600	300	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	
1,3-Dichlorobenzene	µg/L	600	120	NE	NE	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	
1,4-Dichlorobenzene	µg/L	75	15	75	0.48	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	
Dichlorodifluoromethane	µg/L	1,000	200	NE	200	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	
1,1-Dichloroethane	µg/L	850	85	NE	2.7	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	
1,2-Dichloroethane (DCA)	µg/L	5	0.5	5	0.17	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	
1,1-Dichloroethylene	µg/L	NE	NE	7	280	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	
4-Methyl-2-pentanone (MIBK)	µg/L	500	50	NE	1,200	ND (20)	ND (5.0) UJL	ND (5.0) UJL	ND (5.0)	
Methylene Chloride	µg/L	5	0.5	NE	11.4	ND (4.0)	ND (1.0) UJL	ND (1.0) UJL	ND (4.0)	
2-Methylnaphthalene	µg/L	NE	NE	NE	36	--	--	--	ND (5.0)	
Methyl-tert-butyl ether (MTBE)	µg/L	60	12	NE	14	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)	

Notes

Bolded non detects have reporting limits that exceed screening levels

Yellow highlight indicates detection

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-- = Not analyzed

$\mu\text{g/L}$ = micrograms per liter

B = analyte detected in blank, result may be biased high

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WDNR = Wisconsin Department of Natural Resources

WILSON - INVESTIGATION OF WATER IN WISCONSIN

Table 2 Complete Analytical Results (continued)

Address:			1161 Haskell Lake Landing	1175 Haskell Lake Landing	14299 State Highway 70 West				
Description:			Residence	Sand point well	Residence				
Sample ID:			Tower-09-1114	1161 HASKELL LAKE RD	1175 HASKELL LAKE LANDING				
Sample Date:			11/26/2014	9/24/2015	9/24/2015				
Analyte	Units	Screening Levels	WDNR ES	WDNR PAL	EPA MCL	EPA RSL			
Volatile Organic Compounds (Continued)									
Naphthalene	µg/L	100	10	NE	0.17	ND (1.0)	ND (5.0) UJL	ND (5.0) UJL	ND (4.0)
2-Nitropropane	µg/L	NE	NE	NE	0.0021	ND (10)	--	--	--
n-Propylbenzene	µg/L	NE	NE	NE	660	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)
Styrene	µg/L	100	10	100	1,200	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)
1,1,1,2-Tetrachloroethane	µg/L	70	7	NE	0.57	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)
1,1,2,2-Tetrachloroethane	µg/L	0.2	0.02	NE	0.076	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)
Tetrachloroethene	µg/L	5	0.5	5	11	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)
Tetrahydrofuran	µg/L	50	10	NE	3,400	--	ND (5.0) UJL	ND (5.0) UJL	ND (10.0)
Toluene	µg/L	800	160	1,000	1,100	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)
1,2,3-Trichlorobenzene	µg/L	NE	NE	NE	7	ND (0.5)	ND (5.0) UJL	ND (5.0) UJL	ND (1.0)
1,2,4-Trichlorobenzene	µg/L	70	14	70	1.1	ND (0.5)	ND (5.0) UJL	ND (5.0) UJL	ND (1.0)
1,1,1-Trichloroethane	µg/L	200	40	200	8,000	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)
1,1,2-Trichloroethane	µg/L	5	0.5	5	0.28	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)
Trichloroethylene	µg/L	5	0.5	5	0.493	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (0.40)
Trichlorofluoromethane	µg/L	NE	NE	NE	1,100	ND (0.5)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)
1,2,3-Trichloropropane	µg/L	60	12	NE	0.00075	ND (4.0)	ND (1.0) UJL	ND (1.0) UJL	ND (4.0)
1,1,2-Trichlorotrifluoroethane	µg/L	NE	NE	NE	NE	--	ND (5.0) UJL	ND (5.0) UJL	ND (1.0)
1,2,4-Trimethylbenzene	µg/L	480	96	NE	0.00075	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)
1,3,5-Trimethylbenzene	µg/L	480	96	NE	120	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	ND (1.0)
Vinyl chloride	µg/L	0.2	0.02	2	0.0188	ND (0.2)	ND (1.0) UJL	ND (1.0) UJL	ND (0.40)
m,p-Xylene	µg/L	2,000	400	10,000	190	ND (2.0)	ND (2.0) UJL	ND (2.0) UJL	
o-Xylene	µg/L	2,000	400	10,000	190	ND (1.0)	ND (1.0) UJL	ND (1.0) UJL	
Xylene (Total)	µg/L	2,000	400	10,000	190	ND (3.0)	--	--	ND (3.0)
Polynuclear Aromatic Hydrocarbons									
Acenaphthene	µg/L	NE	NE	NE	530	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Acenaphthylene	µg/L	NE	NE	NE	NE	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Anthracene	µg/L	3,000	600	NE	1800	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Benzo(a)anthracene	µg/L	NE	NE	NE	0.012	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Benzo(a)pyrene	µg/L	0.2	0.02	0.2	0.0034	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Benzo(b)fluoranthene	µg/L	0.2	0.02	NE	0.034	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Benzo(g,h,i)perylene	µg/L	NE	NE	NE	NE	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Benzo(k)fluoranthene	µg/L	NE	NE	NE	0.34	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Chrysene	µg/L	0.2	0.02	NE	3.4	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Dibenz(a,h)anthracene	µg/L	NE	NE	NE	0.0034	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Fluoranthene	µg/L	NE	NE	NE	800	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Fluorene	µg/L	400	80	NE	290	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Indeno(1,2,3-cd)pyrene	µg/L	NE	NE	NE	0.034	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Naphthalene	µg/L	100	10	NE	0.17	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Phenanthrene	µg/L	NE	NE	NE	NE	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)
Pyrene	µg/L	250	50	NE	120	--	ND (0.042) UJL	ND (0.040) UJL	ND (0.043)

Notes:

Bolded non detects have reporting limits that exceed screening levels

Yellow highlight indicates detection

Red highlight indicates detection that exceeds screening levels

-- = Not analyzed

µg/L = micrograms per liter

B = analyte detected in blank, result may be biased high

EPA = U.S. Environmental Protection Agency

ES = enforcement standard

ID = identification

J = result is an estimated quantity with an unknown bias

MCL = maximum contaminant level

ND = not detected above action limit (in parentheses)

NE = not established

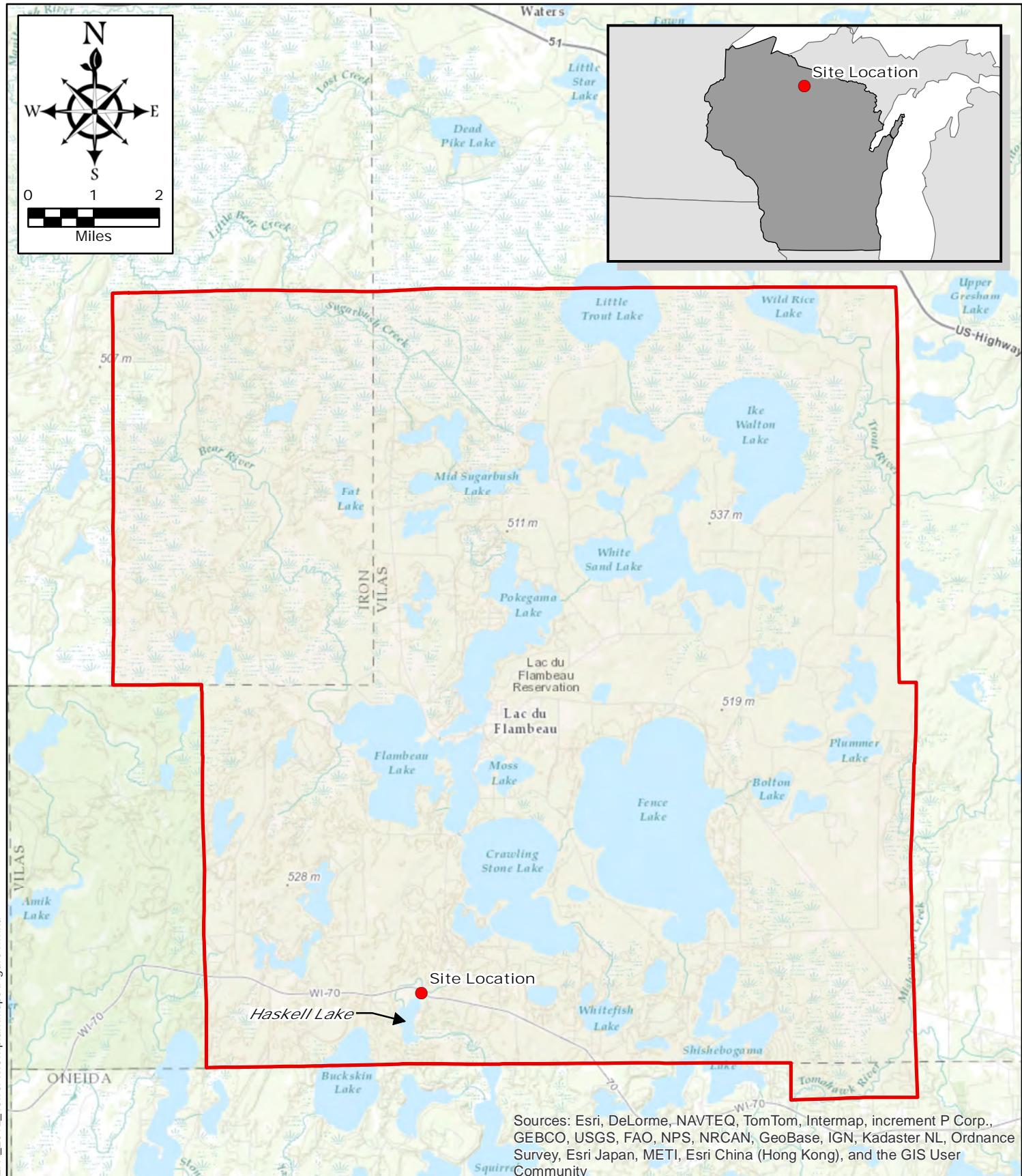
PAL = preventative action limit

RSL = regional screening level

UJL = result is an estimated non-detect with a low bias

WDNR = Wisconsin Department of Natural Resources

FIGURES



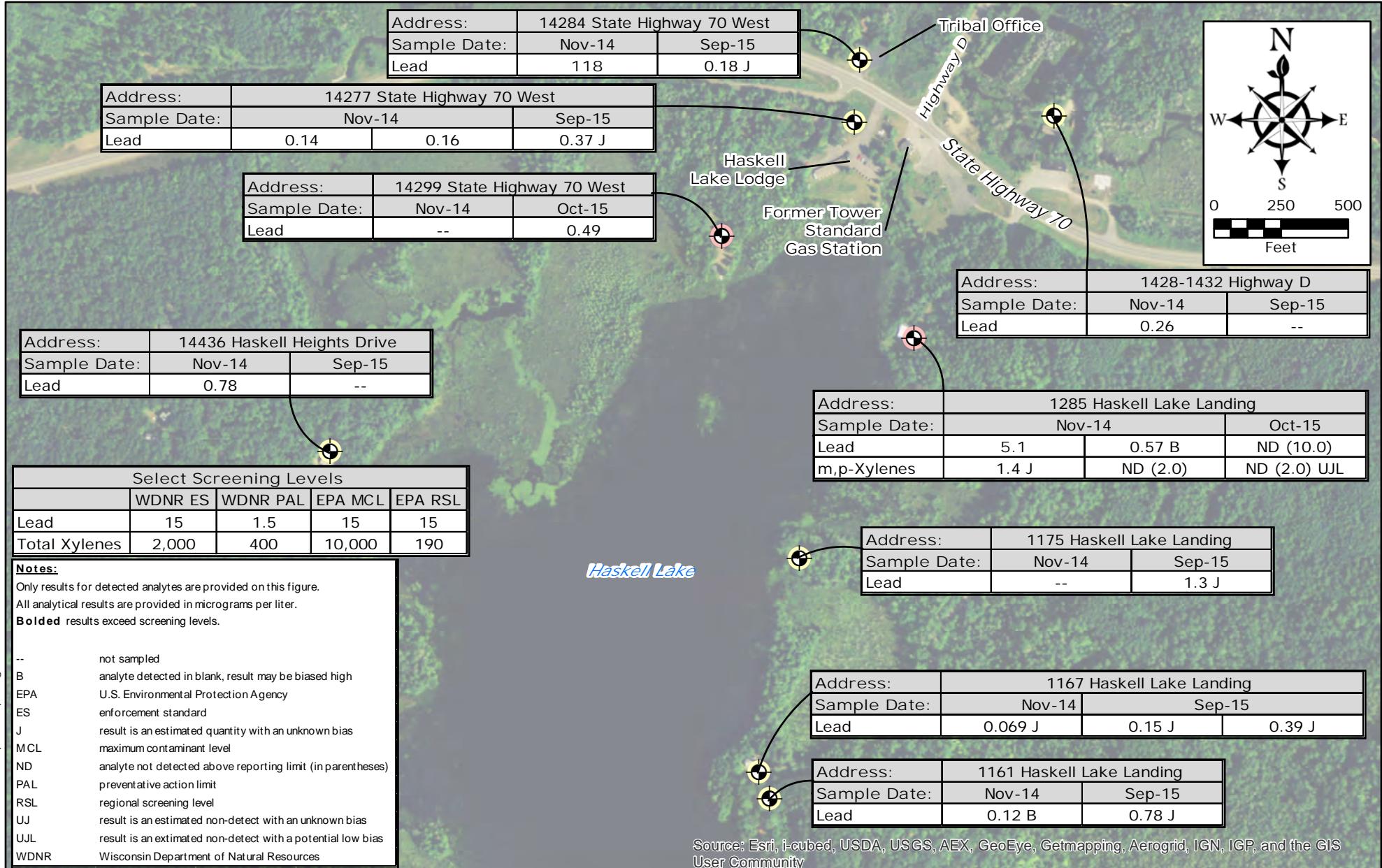
Legend

- Site Location
- Lac du Flambeau Indian Reservation

FIGURE 1
LAC DU FLAMBEAU, WI
EPA TASK ORDER 2012 TOWER STANDARD LUST SITE
SITE LOCATION MAP

Bristol
 ENVIRONMENTAL
 REMEDIATION SERVICES, LLC
 Phone (907)563-0013 Fax (907)563-6713

DATUM:	Date:	6/2/2015	SHEET
NAD83		DWN. NAP	1 of
PROJECTION:		SCALE 1" = 2 mi	1
SP WI ZN FT	Project No.	APPRVD. JSD	
34160024			

**Legend**

- Well Location
- Location Approximate
- Located with GPS

FIGURE 2
LAC DU FLAMBEAU, WI
TOWER STANDARD LUST SITE
PRIVATE WELL SAMPLING LOCATIONS

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC
Phone: (907)563-0013 Fax: (907)563-6713

DATUM: NAD83	Date: 12/23/2015	SHEET 1
PROJECTION: SP WI ZN FT	DWN. NAP	of
SCALE 1" = 500'	APPRVD. MF	1
Project No.		

34160024

APPENDIX A

Field Forms

TAP WATER SAMPLE DATA SHEET

Project Information

EPA Task Order No.: 2012 Bristol Project No.: 34160024
 EPA Site Name: Tower Standard LUST Site

Property-Specific Information

Property Address: 14299 State Highway 70 12001 43rd Ave
 Property Contact: Sam E Gail Wells - mailing address - Pleasant Prairie WI
 Date of Visit: 10/13/2015 262-358-3043 new# S3158

Available Water System Information and Property-Specific Sample Collection Location

Does the residence/business have an in-line treatment system?	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
Was the sample collected near the pressure tank or other pre-treatment location?	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	X
If applicable, were the hoses, filters, or aerators disconnected prior to collecting the sample?	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	X
Did the sample have an odor, sheen or other indications of potential petroleum contamination?	Yes	<input type="checkbox"/>	<input type="checkbox"/>	X

Additional Information: _____

Sample Collection Information

Sample ID: 14299 State Highway 70
 Date & Time Collected: 10/13/2015 9:17 am
 Sampler's Name: Kristen Hanson
 Analyses Requested: Cd, Pb, VOC, MTBE, EDB, PAH

Duplicate Sample ID: _____

Matrix Spike/Matrix Spike Duplicate Sample? _____

Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
Yes	<input type="checkbox"/>	<input type="checkbox"/>	X

Trip Blank Required for Shipment? _____

Purging and Parameter Measurement Data

Time	Minutes Purged	pH	Conductivity (µS/cm)	Turbidity (NTUs)	Temp °C	Notes
9:04	2	6.3	222	<5	16.21	
9:05		6.5	214	<5	13.37	
9:06		6.65	210	<5	12.62	
9:07		6.87	196	<5	12.08	
9:08		6.87	198	<5	12.07	
9:08		6.90	200	<5	11.95	
9:09		6.94	197	<5	11.83	
9:10		6.99	200	<5	11.79	
9:11		7.03	195	<5	11.81	
9:12		7.05	195	<5	11.82	
9:13		7.08	195	<5	11.65	

Run the tap water until the measured turbidity is at or below 10 nephelometric turbidity units (NTUs), pH remains constant at ± 0.1 units, and the specific conductance varies no more than 10 percent. The tap water will be allowed to run until turbidity has been measured at or below 10 NTUs on two consecutive measurements and pH and specific conductance have stabilized. If the stability parameters have not been met after 20 minutes, Bristol or the EPA SME will be contacted to decide whether to collect the sample or continue monitoring until the parameters stabilize.

Sampler's Signature: Kristen Hanson Date: 10/13/2015
 QA Reviewer Signature: _____ Date: _____

9:14	7.08	195	<5	11.65
9:15	7.08	195	<5	11.66

APPENDIX B

Analytical Reports

October 06, 2015

Matt Faust
Bristol Environmental Remediation Services,
LLC
111 W. 16th Avenue
Anchorage, AK 99501

RE: Project: Tower Standard Lust Site
Pace Project No.: 10323991

Dear Matt Faust:

Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Timothy Sandager
timothy.sandager@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Tower Standard Lust Site
 Pace Project No.: 10323991

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414	Minnesota Certification #: 027-053-137
A2LA Certification #: 2926.01	Mississippi Certification #: Pace
Alaska Certification #: UST-078	Montana Certification #: MT0092
Alaska Certification #MN00064	Nevada Certification #: MN_00064
Alabama Certification #40770	Nebraska Certification #: Pace
Arizona Certification #: AZ-0014	New Jersey Certification #: MN-002
Arkansas Certification #: 88-0680	New York Certification #: 11647
California Certification #: 01155CA	North Carolina Certification #: 530
Colorado Certification #Pace	North Carolina State Public Health #: 27700
Connecticut Certification #: PH-0256	North Dakota Certification #: R-036
EPA Region 8 Certification #: 8TMS-L	Ohio EPA #: 4150
Florida/NELAP Certification #: E87605	Ohio VAP Certification #: CL101
Guam Certification #:14-008r	Oklahoma Certification #: 9507
Georgia Certification #: 959	Oregon Certification #: MN200001
Georgia EPD #: Pace	Oregon Certification #: MN300001
Idaho Certification #: MN00064	Pennsylvania Certification #: 68-00563
Hawaii Certification #MN00064	Puerto Rico Certification
Illinois Certification #: 200011	Saipan (CNMI) #:MP0003
Indiana Certification#C-MN-01	South Carolina #:74003001
Iowa Certification #: 368	Texas Certification #: T104704192
Kansas Certification #: E-10167	Tennessee Certification #: 02818
Kentucky Dept of Envi. Protection - DW #90062	Utah Certification #: MN000642013-4
Kentucky Dept of Envi. Protection - WW #:90062	Virginia DGS Certification #: 251
Louisiana DEQ Certification #: 3086	Washington Certification #: C486
Louisiana DHH #: LA140001	West Virginia Certification #: 382
Maine Certification #: 2013011	West Virginia DHHR #:9952C
Maryland Certification #: 322	Wisconsin Certification #: 999407970
Michigan DEPH Certification #: 9909	

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SAMPLE SUMMARY

Project: Tower Standard Lust Site
 Pace Project No.: 10323991

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10323991001	1175 HASHELL LAKE	Water	09/24/15 01:00	09/28/15 10:15
10323991002	1161 HASHELL LAKE (ROAD)	Water	09/24/15 01:40	09/28/15 10:15
10323991003	1167 HLR	Water	09/24/15 02:40	09/28/15 10:15
10323991004	DUP-1 1167 HLR	Water	09/24/15 02:40	09/28/15 10:15
10323991005	HASHELL LAKE LODGE	Water	09/24/15 03:15	09/28/15 10:15
10323991006	TRIBALL OFFICE	Water	09/24/15 03:40	09/28/15 10:15

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SAMPLE ANALYTE COUNT

Project: Tower Standard Lust Site
 Pace Project No.: 10323991

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10323991001	1175 HASHELL LAKE	EPA 8270D by SIM	AS1	18
10323991002	1161 HASHELL LAKE (ROAD)	EPA 8270D by SIM	AS1	18
10323991003	1167 HLR	EPA 8270D by SIM	AS1	18
10323991004	DUP-1 1167 HLR	EPA 8270D by SIM	AS1	18
10323991005	HASHELL LAKE LODGE	EPA 8270D by SIM	AS1	18
10323991006	TRIBALL OFFICE	EPA 8270D by SIM	AS1	18

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Tower Standard Lust Site
Pace Project No.: 10323991

Method: **EPA 8270D by SIM**

Description: 8270D MSSV PAH by SIM

Client: Bristol Environmental Remediation Services, LLC

Date: October 06, 2015

General Information:

6 samples were analyzed for EPA 8270D by SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tower Standard Lust Site

Pace Project No.: 10323991

Sample: 1175 HASHELL LAKE Lab ID: 10323991001 Collected: 09/24/15 01:00 Received: 09/28/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	83-32-9	
Acenaphthylene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	208-96-8	
Anthracene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	207-08-9	
Chrysene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	53-70-3	
Fluoranthene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	206-44-0	
Fluorene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	193-39-5	
Naphthalene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	91-20-3	
Phenanthrene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	85-01-8	
Pyrene	ND	ug/L	0.040	1	09/30/15 09:52	10/04/15 02:34	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	72	%.	52-125	1	09/30/15 09:52	10/04/15 02:34	321-60-8	
p-Terphenyl-d14 (S)	84	%.	62-125	1	09/30/15 09:52	10/04/15 02:34	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tower Standard Lust Site
Pace Project No.: 10323991

Sample: 1161 HASHELL LAKE (ROAD) **Lab ID: 10323991002** Collected: 09/24/15 01:40 Received: 09/28/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	83-32-9	
Acenaphthylene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	208-96-8	
Anthracene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	207-08-9	
Chrysene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	53-70-3	
Fluoranthene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	206-44-0	
Fluorene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	193-39-5	
Naphthalene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	91-20-3	
Phenanthrene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	85-01-8	
Pyrene	ND	ug/L	0.042	1	09/30/15 09:52	10/04/15 02:55	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	75	%.	52-125	1	09/30/15 09:52	10/04/15 02:55	321-60-8	
p-Terphenyl-d14 (S)	87	%.	62-125	1	09/30/15 09:52	10/04/15 02:55	1718-51-0	

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ANALYTICAL RESULTS

Project: Tower Standard Lust Site
Pace Project No.: 10323991

Sample: 1167 HLR	Lab ID: 10323991003	Collected: 09/24/15 02:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	83-32-9	
Acenaphthylene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	208-96-8	
Anthracene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	207-08-9	
Chrysene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	53-70-3	
Fluoranthene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	206-44-0	
Fluorene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	193-39-5	
Naphthalene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	91-20-3	
Phenanthrene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	85-01-8	
Pyrene	ND	ug/L	0.044	1	09/30/15 09:52	10/05/15 12:41	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	85	%.	52-125	1	09/30/15 09:52	10/05/15 12:41	321-60-8	
p-Terphenyl-d14 (S)	89	%.	62-125	1	09/30/15 09:52	10/05/15 12:41	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tower Standard Lust Site

Pace Project No.: 10323991

Sample: DUP-1 1167 HLR	Lab ID: 10323991004	Collected: 09/24/15 02:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	83-32-9	
Acenaphthylene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	208-96-8	
Anthracene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	207-08-9	
Chrysene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	53-70-3	
Fluoranthene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	206-44-0	
Fluorene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	193-39-5	
Naphthalene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	91-20-3	
Phenanthrene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	85-01-8	
Pyrene	ND	ug/L	0.045	1	09/30/15 09:52	10/05/15 13:03	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	75	%.	52-125	1	09/30/15 09:52	10/05/15 13:03	321-60-8	
p-Terphenyl-d14 (S)	86	%.	62-125	1	09/30/15 09:52	10/05/15 13:03	1718-51-0	

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ANALYTICAL RESULTS

Project: Tower Standard Lust Site
Pace Project No.: 10323991

Sample: HASHELL LAKE LODGE	Lab ID: 10323991005	Collected: 09/24/15 03:15	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	83-32-9	
Acenaphthylene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	208-96-8	
Anthracene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	207-08-9	
Chrysene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	53-70-3	
Fluoranthene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	206-44-0	
Fluorene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	193-39-5	
Naphthalene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	91-20-3	
Phenanthrene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	85-01-8	
Pyrene	ND	ug/L	0.043	1	09/30/15 09:52	10/05/15 13:25	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73	%.	52-125	1	09/30/15 09:52	10/05/15 13:25	321-60-8	
p-Terphenyl-d14 (S)	82	%.	62-125	1	09/30/15 09:52	10/05/15 13:25	1718-51-0	

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ANALYTICAL RESULTS

Project: Tower Standard Lust Site

Pace Project No.: 10323991

Sample: TRIBALL OFFICE	Lab ID: 10323991006	Collected: 09/24/15 03:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	83-32-9	
Acenaphthylene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	208-96-8	
Anthracene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	207-08-9	
Chrysene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	53-70-3	
Fluoranthene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	206-44-0	
Fluorene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	193-39-5	
Naphthalene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	91-20-3	
Phenanthrene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	85-01-8	
Pyrene	ND	ug/L	0.041	1	09/30/15 09:52	10/05/15 13:46	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	80	%.	52-125	1	09/30/15 09:52	10/05/15 13:46	321-60-8	
p-Terphenyl-d14 (S)	88	%.	62-125	1	09/30/15 09:52	10/05/15 13:46	1718-51-0	

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QUALITY CONTROL DATA

Project: Tower Standard Lust Site

Pace Project No.: 10323991

QC Batch: OEXT/30991

Analysis Method: EPA 8270D by SIM

QC Batch Method: EPA 3510C

Analysis Description: 8270D PAH by SIM MSSV

Associated Lab Samples: 10323991001, 10323991002, 10323991003, 10323991004, 10323991005, 10323991006

METHOD BLANK: 2094615

Matrix: Water

Associated Lab Samples: 10323991001, 10323991002, 10323991003, 10323991004, 10323991005, 10323991006

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Acenaphthene	ug/L	ND	0.040	10/03/15 20:30	
Acenaphthylene	ug/L	ND	0.040	10/03/15 20:30	
Anthracene	ug/L	ND	0.040	10/03/15 20:30	
Benzo(a)anthracene	ug/L	ND	0.040	10/03/15 20:30	
Benzo(a)pyrene	ug/L	ND	0.040	10/03/15 20:30	
Benzo(b)fluoranthene	ug/L	ND	0.040	10/03/15 20:30	
Benzo(g,h,i)perylene	ug/L	ND	0.040	10/03/15 20:30	
Benzo(k)fluoranthene	ug/L	ND	0.040	10/03/15 20:30	
Chrysene	ug/L	ND	0.040	10/03/15 20:30	
Dibenz(a,h)anthracene	ug/L	ND	0.040	10/03/15 20:30	
Fluoranthene	ug/L	ND	0.040	10/03/15 20:30	
Fluorene	ug/L	ND	0.040	10/03/15 20:30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	10/03/15 20:30	
Naphthalene	ug/L	ND	0.040	10/03/15 20:30	
Phenanthrene	ug/L	ND	0.040	10/03/15 20:30	
Pyrene	ug/L	ND	0.040	10/03/15 20:30	
2-Fluorobiphenyl (S)	%.	74	52-125	10/03/15 20:30	
p-Terphenyl-d14 (S)	%.	85	62-125	10/03/15 20:30	

LABORATORY CONTROL SAMPLE: 2094616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	1	0.77	77	44-125	
Acenaphthylene	ug/L	1	0.86	86	44-125	
Anthracene	ug/L	1	0.99	99	55-125	
Benzo(a)anthracene	ug/L	1	0.95	95	56-125	
Benzo(a)pyrene	ug/L	1	1.0	103	61-125	
Benzo(b)fluoranthene	ug/L	1	0.95	95	60-125	
Benzo(g,h,i)perylene	ug/L	1	0.94	94	53-125	
Benzo(k)fluoranthene	ug/L	1	1.0	103	59-125	
Chrysene	ug/L	1	0.86	86	61-125	
Dibenz(a,h)anthracene	ug/L	1	0.95	95	51-125	
Fluoranthene	ug/L	1	0.98	98	64-125	
Fluorene	ug/L	1	0.85	85	52-125	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.98	98	54-125	
Naphthalene	ug/L	1	0.74	74	35-125	
Phenanthrene	ug/L	1	0.78	78	55-125	
Pyrene	ug/L	1	0.94	94	59-125	
2-Fluorobiphenyl (S)	%.			77	52-125	
p-Terphenyl-d14 (S)	%.			91	62-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Tower Standard Lust Site

Pace Project No.: 10323991

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2094617 2094618

Parameter	Units	10323923001		MSD		2094618					
		Result	Spike Conc.	Spike Conc.	MS Result	MSD	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD
Acenaphthene	ug/L	<0.0033	1.1	1.1	0.73	0.75	69	66	44-125	2	30
Acenaphthylene	ug/L	<0.0040	1.1	1.1	0.84	0.88	79	77	52-125	4	30
Anthracene	ug/L	<0.0045	1.1	1.1	1.0	1.0	94	88	56-125	0	30
Benzo(a)anthracene	ug/L	0.0050J	1.1	1.1	1.0	0.96	94	84	51-125	4	30
Benzo(a)pyrene	ug/L	<0.0030	1.1	1.1	1.1	1.0	106	92	64-125	8	30
Benzo(b)fluoranthene	ug/L	<0.0077	1.1	1.1	1.1	1.0	104	89	61-125	9	30
Benzo(g,h,i)perylene	ug/L	<0.0054	1.1	1.1	0.96	0.93	90	81	53-125	4	30
Benzo(k)fluoranthene	ug/L	<0.0038	1.1	1.1	1.0	0.93	96	82	59-125	9	30
Chrysene	ug/L	<0.0053	1.1	1.1	0.93	0.87	87	77	56-125	6	30
Dibenz(a,h)anthracene	ug/L	<0.0097	1.1	1.1	0.91	0.93	86	82	42-125	2	30
Fluoranthene	ug/L	<0.0057	1.1	1.1	1.0	1.0	95	90	54-125	1	30
Fluorene	ug/L	<0.0057	1.1	1.1	0.82	0.84	76	73	45-125	3	30
Indeno(1,2,3-cd)pyrene	ug/L	<0.0056	1.1	1.1	1.0	0.93	94	82	44-125	7	30
Naphthalene	ug/L	<0.0092	1.1	1.1	0.76	0.80	71	70	51-125	5	30
Phenanthrene	ug/L	<0.013	1.1	1.1	0.77	0.79	72	69	61-125	2	30
Pyrene	ug/L	<0.0065	1.1	1.1	0.94	0.93	88	81	63-125	1	30
2-Fluorobiphenyl (S)	%.						68	66	52-125		
p-Terphenyl-d14 (S)	%.						84	77	62-125		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2094619 2094620

Parameter	Units	10323991002		MSD		2094620					
		Result	Spike Conc.	Spike Conc.	MS Result	MSD	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD
Acenaphthene	ug/L	ND	1	1.1	0.72	0.86	69	81	44-125	19	30
Acenaphthylene	ug/L	ND	1	1.1	0.78	0.93	75	88	52-125	19	30
Anthracene	ug/L	ND	1	1.1	0.92	1.0	89	96	56-125	11	30
Benzo(a)anthracene	ug/L	ND	1	1.1	0.88	0.99	85	93	51-125	11	30
Benzo(a)pyrene	ug/L	ND	1	1.1	0.97	1.1	94	101	64-125	11	30
Benzo(b)fluoranthene	ug/L	ND	1	1.1	0.93	1.0	90	98	61-125	12	30
Benzo(g,h,i)perylene	ug/L	ND	1	1.1	0.92	1.0	89	94	53-125	8	30
Benzo(k)fluoranthene	ug/L	ND	1	1.1	0.92	1.0	89	95	59-125	10	30
Chrysene	ug/L	ND	1	1.1	0.82	0.91	80	85	56-125	10	30
Dibenz(a,h)anthracene	ug/L	ND	1	1.1	0.88	0.97	85	91	42-125	9	30
Fluoranthene	ug/L	ND	1	1.1	0.92	0.99	89	93	54-125	7	30
Fluorene	ug/L	ND	1	1.1	0.79	0.92	77	86	45-125	14	30
Indeno(1,2,3-cd)pyrene	ug/L	ND	1	1.1	0.92	1.0	89	98	44-125	13	30
Naphthalene	ug/L	ND	1	1.1	0.68	0.84	66	79	51-125	21	30
Phenanthrene	ug/L	ND	1	1.1	0.75	0.83	72	78	61-125	11	30
Pyrene	ug/L	ND	1	1.1	0.90	0.99	87	93	63-125	9	30
2-Fluorobiphenyl (S)	%.						70	82	52-125		
p-Terphenyl-d14 (S)	%.						82	87	62-125		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Tower Standard Lust Site
Pace Project No.: 10323991

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tower Standard Lust Site
 Pace Project No.: 10323991

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10323991001	1175 HASHELL LAKE	EPA 3510C	OEXT/30991	EPA 8270D by SIM	MSSV/13181
10323991002	1161 HASHELL LAKE (ROAD)	EPA 3510C	OEXT/30991	EPA 8270D by SIM	MSSV/13181
10323991003	1167 HLR	EPA 3510C	OEXT/30991	EPA 8270D by SIM	MSSV/13181
10323991004	DUP-1 1167 HLR	EPA 3510C	OEXT/30991	EPA 8270D by SIM	MSSV/13181
10323991005	HASHELL LAKE LODGE	EPA 3510C	OEXT/30991	EPA 8270D by SIM	MSSV/13181
10323991006	TRIBALL OFFICE	EPA 3510C	OEXT/30991	EPA 8270D by SIM	MSSV/13181

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10323991

Section A

Required Client Information:

Company: Bristol Environmental Sv.
Address: 111 W 16th Ave. 3rd Flr
Anchorage, AK 99501
Email To: Julie Sharp-Dahl
Phone: 907-743-9394 Fax:
Requested Due Date/TAT: 10 Business Days

Section B

Required Project Information:

Report To: Julie Sharp-Dahl
Copy To: LeSa Nelson
Purchase Order No.:
Project Name: Tower Standard Cust Site
Project Number: BERS# 34160024; EPA 2012

Section C

Invoice Information:

Attention: Julie Sharp-Dahl
Company Name: Bristol Environmental Remediation
Address: See Client Info
Pace Quote Reference: 00019643
Pace Project Manager: Tim Sandager
Pace Profile #:

Page: _____ of _____

1715044

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____

Site Location

STATE:

W1

Requested Analysis Filtered (Y/N)

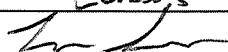
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE		MATERIAL CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				# OF CONTAINERS	Preservatives	Y/N	Analysis Test ↓	PAH	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.				
		Drinking Water	DW			COMPOSITE START			COMPOSITE END/GRAB											
		DATE	TIME	DATE	TIME						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		
1	1175 Haskell Lake Service	WT	6:			9/24	1:00	15		1 X									X	001
2	1161 (Haskell Lake Road)					9/24	1:40	11		1 X									X	002
3	(HLR) ↗																			
4	1161 HLR MSDS					9/24	1:40	11		2 X									X	
5	1167 HLR					9/24	2:40	11		1 X									X	003
6	DUP-1 (1167+HLR)					9/24	2:40	11		1 X									X	004
7	Haskell Lake Lodge	WT	↓			9/24	3:15	12		1 X									X	005
8	Tribal office					9/24	3:40	11		1 X									X	006
9																				
10																				
11																				
12																				
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION				DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLE CONDITIONS					
			Luke Speczeler	CWE	9/25	10:00			Geny Fales	Pace	9/25/15	10:15	12.5	X	Y	Y				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

Lucas Speczeler

SIGNATURE of SAMPLER:


DATE Signed
(MM/DD/YY): 09/25/15

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

<i>Pace Analytical</i>	Document Name: Sample Condition Upon Receipt Form	Document Revised: 23Feb2015 Page 1 of 1
	Document No.: F-MN-L-213-rev.13	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt	Client Name: <i>CWE / Bristol</i>	Project #:	WO# : 10323991
Courier:	<input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client	Tracking Number: _____	
Custody Seal on Cooler/Box Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Seals Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Optional: Proj. Due Date: _____ Proj. Name: _____
Packing Material:	<input checked="" type="checkbox"/> Bubble Wrap <input checked="" type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other: _____	Temp Blank?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Thermometer Used:	<input type="checkbox"/> B88A9130516413 <i>B88A912167504</i>	Type of Ice:	<input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> None <input type="checkbox"/> Samples on ice, cooling process has begun
Cooler Temp Read (°C): <i>12.5</i>	Cooler Temp Corrected (°C): <i>12.5</i>	Biological Tissue Frozen?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Temp should be above freezing to 6°C		Date and Initials of Person Examining Contents: <i>ET 9/28/15</i>	
USDA Regulated Soil (<input checked="" type="checkbox"/> N/A, water sample)		Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, IA. <input type="checkbox"/> Yes <input type="checkbox"/> No Did samples originate from a foreign source (internationally, MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? <input type="checkbox"/> Yes <input type="checkbox"/> No including Hawaii and Puerto Rico? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.			
COMMENTS:			
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<i>ET 9/28/15</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes Date/Time/ID/Analysis Matrix:	<i>WT</i>		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl	
All containers needing preservation are found to be in compliance with EPA recommendation?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #	
(HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____	
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Pace Trip Blank Lot # (if purchased):			

CLIENT NOTIFICATION/RESOLUTION
Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____
Comments/Resolution: _____

Project Manager Review: *[Signature]*

Date: *9/29/15*

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

October 12, 2015

Matt Faust
Bristol Environmental Remediation Services,
LLC
111 W. 16th Avenue
Anchorage, AK 99501

RE: Project: BERS#31160024.EPA2012 TOWER ST
Pace Project No.: 10324016

Dear Matt Faust:

Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Timothy Sandager
timothy.sandager@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BERS#31160024.EPA2012 TOWER ST
 Pace Project No.: 10324016

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
 A2LA Certification #: 2926.01
 Alaska Certification #: UST-078
 Alaska Certification #MN00064
 Alabama Certification #40770
 Arizona Certification #: AZ-0014
 Arkansas Certification #: 88-0680
 California Certification #: 01155CA
 Colorado Certification #Pace
 Connecticut Certification #: PH-0256
 EPA Region 8 Certification #: 8TMS-L
 Florida/NELAP Certification #: E87605
 Guam Certification #:14-008r
 Georgia Certification #: 959
 Georgia EPD #: Pace
 Idaho Certification #: MN00064
 Hawaii Certification #MN00064
 Illinois Certification #: 200011
 Indiana Certification#C-MN-01
 Iowa Certification #: 368
 Kansas Certification #: E-10167
 Kentucky Dept of Envi. Protection - DW #90062
 Kentucky Dept of Envi. Protection - WW #:90062
 Louisiana DEQ Certification #: 3086
 Louisiana DHH #: LA140001
 Maine Certification #: 2013011
 Maryland Certification #: 322
 Michigan DEPH Certification #: 9909
 Minnesota Certification #: 027-053-137
 Mississippi Certification #: Pace
 Montana Certification #: MT0092
 Nevada Certification #: MN_00064
 Nebraska Certification #: Pace
 New Jersey Certification #: MN-002
 New York Certification #: 11647
 North Carolina Certification #: 530
 North Carolina State Public Health #: 27700
 North Dakota Certification #: R-036
 Ohio EPA #: 4150
 Ohio VAP Certification #: CL101
 Oklahoma Certification #: 9507
 Oregon Certification #: MN200001
 Oregon Certification #: MN300001
 Pennsylvania Certification #: 68-00563
 Puerto Rico Certification
 Saipan (CNMI) #:MP0003
 South Carolina #:74003001
 Texas Certification #: T104704192
 Tennessee Certification #: 02818
 Utah Certification #: MN000642013-4
 Virginia DGS Certification #: 251
 Washington Certification #: C486
 West Virginia Certification #: 382
 West Virginia DHHR #:9952C
 Wisconsin Certification #: 999407970

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
 Florida/NELAP Certification #: E87948
 Illinois Certification #: 200050
 Kentucky Certification #: 82
 Louisiana Certification #: 04168
 Minnesota Certification #: 055-999-334
 Virginia VELAP ID: 460263
 North Dakota Certification #: R-150
 South Carolina Certification #: 83006001
 Texas Certification #: T104704529-14-1
 US Dept of Agriculture #: S-76505
 Virginia VELAP Certification ID: 460263
 Virginia VELAP ID: 460263
 Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BERS#31160024.EPA2012 TOWER ST
 Pace Project No.: 10324016

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10324016001	1175 HASHELL LAKE LANDING	Water	09/24/15 01:00	09/28/15 10:15
10324016002	1175 HASHELL LAKE LANDING	Water	09/24/15 01:00	09/28/15 10:15
10324016003	1161 HASHELL LAKE LAND	Water	09/24/15 01:40	09/28/15 10:15
10324016004	1161 HASHELL LAKE LAND	Water	09/24/15 01:40	09/28/15 10:15
10324016005	1167 HASHELL LAKE RD	Water	09/24/15 04:40	09/28/15 10:15
10324016006	DUP-1	Water	09/24/15 04:40	09/28/15 10:15
10324016007	HASHELL LAKE LODGE	Water	09/24/15 03:15	09/28/15 10:15
10324016008	TRIBAL OFFICE	Water	09/24/15 03:40	09/28/15 10:15
10324016009	TRIP BLANK	Water		09/28/15 10:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BERS#31160024.EPA2012 TOWER ST
Pace Project No.: 10324016

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10324016001	1175 HASHELL LAKE LANDING	EPA 6020A	TT3	2	PASI-M
10324016002	1175 HASHELL LAKE LANDING	EPA 6020A	TT3	2	PASI-M
		EPA 8260	LAP	71	PASI-G
10324016003	1161 HASHELL LAKE LAND	EPA 6020A	TT3	2	PASI-M
		EPA 8260	LAP	71	PASI-G
10324016005	1167 HASHELL LAKE RD	EPA 6020A	TT3	2	PASI-M
		EPA 8260	LAP	71	PASI-G
10324016006	DUP-1	EPA 6020A	TT3	2	PASI-M
		EPA 8260	LAP	71	PASI-G
10324016007	HASHELL LAKE LODGE	EPA 6020A	TT3	2	PASI-M
		EPA 8260	LAP	71	PASI-G
10324016008	TRIBAL OFFICE	EPA 6020A	TT3	2	PASI-M
		EPA 8260	LAP	71	PASI-G
10324016009	TRIP BLANK	EPA 8260	LAP	71	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BERS#31160024.EPA2012 TOWER ST
Pace Project No.: 10324016

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10324016001	1175 HASHELL LAKE LANDING					
EPA 6020A	Lead	1.3	ug/L	0.10	10/09/15 18:07	
10324016003	1161 HASHELL LAKE LAND					
EPA 6020A	Lead	0.78	ug/L	0.10	10/09/15 18:13	
10324016005	1167 HASHELL LAKE RD					
EPA 6020A	Lead	0.15	ug/L	0.10	10/09/15 18:28	
10324016006	DUP-1					
EPA 6020A	Lead	0.39	ug/L	0.10	10/09/15 18:31	
10324016007	HASHELL LAKE LODGE					
EPA 6020A	Lead	0.37	ug/L	0.10	10/09/15 18:34	
10324016008	TRIBAL OFFICE					
EPA 6020A	Lead	0.18	ug/L	0.10	10/09/15 18:36	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BERS#31160024.EPA2012 TOWER ST
Pace Project No.: 10324016

Method: **EPA 6020A**
Description: 6020A MET ICPMS
Client: Bristol Environmental Remediation Services, LLC
Date: October 12, 2015

General Information:

7 samples were analyzed for EPA 6020A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BERS#31160024.EPA2012 TOWER ST
Pace Project No.: 10324016

Method: **EPA 8260**
Description: 8260 MSV
Client: Bristol Environmental Remediation Services, LLC
Date: October 12, 2015

General Information:

7 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST
Pace Project No.: 10324016

Sample: 1175 HASHELL LAKE
LANDING Lab ID: 10324016001 Collected: 09/24/15 01:00 Received: 09/28/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:07	7440-43-9	
Lead	1.3	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:07	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

**Sample: 1175 HASHELL LAKE
LANDING** **Lab ID: 10324016002** Collected: 09/24/15 01:00 Received: 09/28/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:10	7440-43-9	
Lead	ND	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:10	7439-92-1	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 20:44	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 20:44	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 20:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 20:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 20:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 20:44	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/02/15 20:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 20:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 20:44	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 20:44	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 20:44	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 20:44	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 20:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 20:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 20:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 20:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 20:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 20:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 20:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 20:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 20:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 20:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 20:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 20:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 20:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 20:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 20:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 20:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 20:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 20:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 20:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 20:44	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 20:44	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 20:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 20:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 20:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 20:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 20:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 20:44	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 20:44	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 20:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 20:44	87-68-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST
Pace Project No.: 10324016

Sample: 1175 HASHELL LAKE
LANDING Lab ID: 10324016002 Collected: 09/24/15 01:00 Received: 09/28/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 20:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 20:44	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 20:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 20:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 20:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/02/15 20:44	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 20:44	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 20:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 20:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 20:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 20:44	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 20:44	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 20:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 20:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 20:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 20:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 20:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 20:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 20:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 20:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 20:44	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 20:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 20:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 20:44	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 20:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 20:44	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		10/02/15 20:44	460-00-4	
Dibromofluoromethane (S)	113	%	70-130	1		10/02/15 20:44	1868-53-7	
Toluene-d8 (S)	96	%	70-130	1		10/02/15 20:44	2037-26-5	

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

Sample: 1161 HASHELL LAKE LAND **Lab ID: 10324016003** Collected: 09/24/15 01:40 Received: 09/28/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:13	7440-43-9	
Lead	0.78	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:13	7439-92-1	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 15:28	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 15:28	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 15:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 15:28	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 15:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 15:28	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/02/15 15:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 15:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 15:28	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 15:28	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 15:28	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 15:28	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 15:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 15:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 15:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 15:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 15:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 15:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 15:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 15:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 15:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 15:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 15:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 15:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 15:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 15:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 15:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 15:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 15:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 15:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 15:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 15:28	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 15:28	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 15:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 15:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 15:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 15:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 15:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 15:28	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 15:28	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 15:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 15:28	87-68-3	

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

Sample: 1161 HASHELL LAKE LAND **Lab ID: 10324016003** Collected: 09/24/15 01:40 Received: 09/28/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 15:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 15:28	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 15:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 15:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 15:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/02/15 15:28	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 15:28	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 15:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 15:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 15:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 15:28	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 15:28	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 15:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 15:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 15:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 15:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 15:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 15:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 15:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 15:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 15:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 15:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 15:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 15:28	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 15:28	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 15:28	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		10/02/15 15:28	460-00-4	
Dibromofluoromethane (S)	113	%	70-130	1		10/02/15 15:28	1868-53-7	
Toluene-d8 (S)	97	%	70-130	1		10/02/15 15:28	2037-26-5	

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

Sample: 1167 HASHELL LAKE RD	Lab ID: 10324016005	Collected: 09/24/15 04:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:28	7440-43-9	
Lead	0.15	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:28	7439-92-1	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 21:29	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 21:29	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 21:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 21:29	108-86-1	
Bromoform	ND	ug/L	1.0	1		10/02/15 21:29	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 21:29	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 21:29	75-25-2	
Bromoform	ND	ug/L	1.0	1		10/02/15 21:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 21:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 21:29	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 21:29	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 21:29	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 21:29	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 21:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 21:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 21:29	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 21:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 21:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 21:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 21:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 21:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 21:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 21:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 21:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 21:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 21:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 21:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:29	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 21:29	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:29	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 21:29	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 21:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 21:29	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 21:29	98-82-8	

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST
Pace Project No.: 10324016

Sample: 1167 HASHELL LAKE RD	Lab ID: 10324016005	Collected: 09/24/15 04:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 21:29	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 21:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 21:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 21:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/02/15 21:29	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 21:29	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 21:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 21:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 21:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 21:29	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 21:29	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 21:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 21:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 21:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 21:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 21:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 21:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 21:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 21:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 21:29	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 21:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 21:29	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 21:29	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 21:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 21:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		10/02/15 21:29	460-00-4	
Dibromofluoromethane (S)	114	%	70-130	1		10/02/15 21:29	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		10/02/15 21:29	2037-26-5	

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

Sample: DUP-1	Lab ID: 10324016006	Collected: 09/24/15 04:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:31	7440-43-9	
Lead	0.39	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:31	7439-92-1	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 21:06	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 21:06	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 21:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 21:06	108-86-1	
Bromoform	ND	ug/L	1.0	1		10/02/15 21:06	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 21:06	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 21:06	75-25-2	
Bromoform	ND	ug/L	1.0	1		10/02/15 21:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 21:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 21:06	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 21:06	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 21:06	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 21:06	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 21:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 21:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 21:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 21:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 21:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 21:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 21:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 21:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 21:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 21:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 21:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 21:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 21:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 21:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:06	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 21:06	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:06	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 21:06	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 21:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 21:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 21:06	98-82-8	

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

Sample: DUP-1	Lab ID: 10324016006	Collected: 09/24/15 04:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 21:06	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 21:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 21:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 21:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/02/15 21:06	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 21:06	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 21:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 21:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 21:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 21:06	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 21:06	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 21:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 21:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 21:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 21:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 21:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 21:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 21:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 21:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 21:06	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 21:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 21:06	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 21:06	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 21:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 21:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		10/02/15 21:06	460-00-4	
Dibromofluoromethane (S)	114	%	70-130	1		10/02/15 21:06	1868-53-7	
Toluene-d8 (S)	97	%	70-130	1		10/02/15 21:06	2037-26-5	

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

Sample: HASHELL LAKE LODGE	Lab ID: 10324016007	Collected: 09/24/15 03:15	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:34	7440-43-9	
Lead	0.37	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:34	7439-92-1	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 21:51	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 21:51	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 21:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 21:51	108-86-1	
Bromoform	ND	ug/L	1.0	1		10/02/15 21:51	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 21:51	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 21:51	75-25-2	
Bromoform	ND	ug/L	1.0	1		10/02/15 21:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 21:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 21:51	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 21:51	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 21:51	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 21:51	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 21:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 21:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 21:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 21:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 21:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 21:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 21:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 21:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 21:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 21:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 21:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 21:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 21:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 21:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 21:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 21:51	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 21:51	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 21:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 21:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 21:51	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 21:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 21:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 21:51	98-82-8	

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

Sample: HASHELL LAKE LODGE	Lab ID: 10324016007	Collected: 09/24/15 03:15	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 21:51	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 21:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 21:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 21:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/02/15 21:51	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 21:51	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 21:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 21:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 21:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 21:51	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 21:51	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 21:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 21:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 21:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 21:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 21:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 21:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 21:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 21:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 21:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 21:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 21:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 21:51	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 21:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 21:51	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		10/02/15 21:51	460-00-4	
Dibromofluoromethane (S)	114	%	70-130	1		10/02/15 21:51	1868-53-7	
Toluene-d8 (S)	95	%	70-130	1		10/02/15 21:51	2037-26-5	

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

Sample: TRIBAL OFFICE	Lab ID: 10324016008	Collected: 09/24/15 03:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/07/15 15:07	10/09/15 18:36	7440-43-9	
Lead	0.18	ug/L	0.10	1	10/07/15 15:07	10/09/15 18:36	7439-92-1	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 22:14	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 22:14	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 22:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 22:14	108-86-1	
Bromoform	ND	ug/L	1.0	1		10/02/15 22:14	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 22:14	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 22:14	75-25-2	
Bromoform	ND	ug/L	1.0	1		10/02/15 22:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 22:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 22:14	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 22:14	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 22:14	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 22:14	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 22:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 22:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 22:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 22:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 22:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 22:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 22:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 22:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 22:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 22:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 22:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 22:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 22:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 22:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 22:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 22:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 22:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 22:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 22:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 22:14	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 22:14	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 22:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 22:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 22:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 22:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 22:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 22:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 22:14	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 22:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 22:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 22:14	98-82-8	

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

Sample: TRIBAL OFFICE	Lab ID: 10324016008	Collected: 09/24/15 03:40	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 22:14	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 22:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 22:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 22:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		10/02/15 22:14	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 22:14	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 22:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 22:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 22:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 22:14	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 22:14	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 22:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 22:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 22:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 22:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 22:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 22:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 22:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 22:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 22:14	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 22:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 22:14	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 22:14	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 22:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 22:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		10/02/15 22:14	460-00-4	
Dibromofluoromethane (S)	111	%	70-130	1		10/02/15 22:14	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		10/02/15 22:14	2037-26-5	

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

Sample: TRIP BLANK	Lab ID: 10324016009	Collected:	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		10/02/15 19:36	67-64-1	
Allyl chloride	ND	ug/L	5.0	1		10/02/15 19:36	107-05-1	
Benzene	ND	ug/L	1.0	1		10/02/15 19:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/02/15 19:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/02/15 19:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/02/15 19:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/02/15 19:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/02/15 19:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/02/15 19:36	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/02/15 19:36	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/02/15 19:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/02/15 19:36	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/02/15 19:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/02/15 19:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/02/15 19:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/02/15 19:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/02/15 19:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 19:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/02/15 19:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/02/15 19:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/02/15 19:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/02/15 19:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/02/15 19:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 19:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 19:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/02/15 19:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/02/15 19:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/02/15 19:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/02/15 19:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/02/15 19:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 19:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/02/15 19:36	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 19:36	75-43-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 19:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/02/15 19:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/02/15 19:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/02/15 19:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 19:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/02/15 19:36	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	5.0	1		10/02/15 19:36	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/02/15 19:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/02/15 19:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/02/15 19:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/02/15 19:36	99-87-6	
Methylene Chloride	ND	ug/L	1.0	1		10/02/15 19:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/02/15 19:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/02/15 19:36	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

Sample: TRIP BLANK	Lab ID: 10324016009	Collected:	Received: 09/28/15 10:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	5.0	1		10/02/15 19:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/02/15 19:36	103-65-1	
Styrene	ND	ug/L	1.0	1		10/02/15 19:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 19:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/02/15 19:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/02/15 19:36	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/02/15 19:36	109-99-9	
Toluene	ND	ug/L	1.0	1		10/02/15 19:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 19:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/02/15 19:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/02/15 19:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/02/15 19:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/02/15 19:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/02/15 19:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/02/15 19:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		10/02/15 19:36	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 19:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/02/15 19:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/02/15 19:36	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/02/15 19:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/02/15 19:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		10/02/15 19:36	460-00-4	HS
Dibromofluoromethane (S)	115	%	70-130	1		10/02/15 19:36	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		10/02/15 19:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

QC Batch:	MPRP/58431	Analysis Method:	EPA 6020A
QC Batch Method:	EPA 3020	Analysis Description:	6020A Water UPD4
Associated Lab Samples: 10324016001, 10324016002, 10324016003, 10324016005, 10324016006, 10324016007, 10324016008			

METHOD BLANK:	2098506	Matrix:	Water
Associated Lab Samples: 10324016001, 10324016002, 10324016003, 10324016005, 10324016006, 10324016007, 10324016008			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	ND	0.080	10/09/15 18:00	
Lead	ug/L	ND	0.10	10/09/15 18:00	

LABORATORY CONTROL SAMPLE:	2098507					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	80	89.7	112	80-120	
Lead	ug/L	80	89.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2098508	2098509									
Parameter	Units	10324016003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD Qual
Cadmium	ug/L	ND	80	80	84.7	86.6	106	108	75-125	2	20
Lead	ug/L	0.78	80	80	86.6	86.8	107	108	75-125	0	20

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QUALITY CONTROL DATA

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

QC Batch:	MSV/30425	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	10324016002, 10324016003, 10324016005, 10324016006, 10324016007, 10324016008, 10324016009		

METHOD BLANK: 1230835 Matrix: Water

Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/02/15 13:35	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/02/15 13:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/02/15 13:35	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/02/15 13:35	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	10/02/15 13:35	
1,1-Dichloroethane	ug/L	ND	1.0	10/02/15 13:35	
1,1-Dichloroethene	ug/L	ND	1.0	10/02/15 13:35	
1,1-Dichloropropene	ug/L	ND	1.0	10/02/15 13:35	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	10/02/15 13:35	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/02/15 13:35	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	10/02/15 13:35	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/02/15 13:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/02/15 13:35	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/02/15 13:35	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/02/15 13:35	
1,2-Dichloroethane	ug/L	ND	1.0	10/02/15 13:35	
1,2-Dichloropropane	ug/L	ND	1.0	10/02/15 13:35	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/02/15 13:35	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/02/15 13:35	
1,3-Dichloropropane	ug/L	ND	1.0	10/02/15 13:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/02/15 13:35	
2,2-Dichloropropane	ug/L	ND	1.0	10/02/15 13:35	
2-Butanone (MEK)	ug/L	ND	20.0	10/02/15 13:35	
2-Chlorotoluene	ug/L	ND	1.0	10/02/15 13:35	
4-Chlorotoluene	ug/L	ND	1.0	10/02/15 13:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/02/15 13:35	
Acetone	ug/L	ND	20.0	10/02/15 13:35	
Allyl chloride	ug/L	ND	5.0	10/02/15 13:35	
Benzene	ug/L	ND	1.0	10/02/15 13:35	
Bromobenzene	ug/L	ND	1.0	10/02/15 13:35	
Bromochloromethane	ug/L	ND	1.0	10/02/15 13:35	
Bromodichloromethane	ug/L	ND	1.0	10/02/15 13:35	
Bromoform	ug/L	ND	1.0	10/02/15 13:35	
Bromomethane	ug/L	ND	5.0	10/02/15 13:35	
Carbon tetrachloride	ug/L	ND	1.0	10/02/15 13:35	
Chlorobenzene	ug/L	ND	1.0	10/02/15 13:35	
Chloroethane	ug/L	ND	1.0	10/02/15 13:35	
Chloroform	ug/L	ND	5.0	10/02/15 13:35	
Chloromethane	ug/L	ND	1.0	10/02/15 13:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/02/15 13:35	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/02/15 13:35	

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QUALITY CONTROL DATA

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

METHOD BLANK: 1230835

Matrix: Water

Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	10/02/15 13:35	
Dibromomethane	ug/L	ND	1.0	10/02/15 13:35	
Dichlorodifluoromethane	ug/L	ND	1.0	10/02/15 13:35	
Dichlorofluoromethane	ug/L	ND	1.0	10/02/15 13:35	
Diethyl ether (Ethyl ether)	ug/L	ND	5.0	10/02/15 13:35	
Ethylbenzene	ug/L	ND	1.0	10/02/15 13:35	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/02/15 13:35	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/02/15 13:35	
m&p-Xylene	ug/L	ND	2.0	10/02/15 13:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/02/15 13:35	
Methylene Chloride	ug/L	ND	1.0	10/02/15 13:35	
n-Butylbenzene	ug/L	ND	1.0	10/02/15 13:35	
n-Propylbenzene	ug/L	ND	1.0	10/02/15 13:35	
Naphthalene	ug/L	ND	5.0	10/02/15 13:35	
o-Xylene	ug/L	ND	1.0	10/02/15 13:35	
p-Isopropyltoluene	ug/L	ND	1.0	10/02/15 13:35	
sec-Butylbenzene	ug/L	ND	5.0	10/02/15 13:35	
Styrene	ug/L	ND	1.0	10/02/15 13:35	
tert-Butylbenzene	ug/L	ND	1.0	10/02/15 13:35	
Tetrachloroethene	ug/L	ND	1.0	10/02/15 13:35	
Tetrahydrofuran	ug/L	ND	5.0	10/02/15 13:35	
Toluene	ug/L	ND	1.0	10/02/15 13:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/02/15 13:35	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/02/15 13:35	
Trichloroethene	ug/L	ND	1.0	10/02/15 13:35	
Trichlorofluoromethane	ug/L	ND	1.0	10/02/15 13:35	
Vinyl chloride	ug/L	ND	1.0	10/02/15 13:35	
4-Bromofluorobenzene (S)	%	94	70-130	10/02/15 13:35	
Dibromofluoromethane (S)	%	111	70-130	10/02/15 13:35	
Toluene-d8 (S)	%	99	70-130	10/02/15 13:35	

LABORATORY CONTROL SAMPLE: 1230836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.0	116	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	54.5	109	70-130	
1,1,2-Trichloroethane	ug/L	50	52.2	104	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	55.9	112	50-150	
1,1-Dichloroethane	ug/L	50	46.7	93	70-130	
1,1-Dichloroethene	ug/L	50	55.0	110	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	59.9	120	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	70-130	
1,2-Dichlorobenzene	ug/L	50	52.2	104	70-130	

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QUALITY CONTROL DATA

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

LABORATORY CONTROL SAMPLE: 1230836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	55.4	111	70-131	
1,2-Dichloropropane	ug/L	50	47.4	95	70-130	
1,3-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,4-Dichlorobenzene	ug/L	50	50.3	101	70-130	
Benzene	ug/L	50	51.6	103	70-130	
Bromodichloromethane	ug/L	50	55.0	110	70-130	
Bromoform	ug/L	50	57.2	114	68-130	
Bromomethane	ug/L	50	30.1	60	38-137	
Carbon tetrachloride	ug/L	50	60.0	120	70-130	
Chlorobenzene	ug/L	50	51.6	103	70-130	
Chloroethane	ug/L	50	45.1	90	70-136	
Chloroform	ug/L	50	54.3	109	70-130	
Chloromethane	ug/L	50	35.3	71	48-144	
cis-1,2-Dichloroethene	ug/L	50	52.6	105	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.7	103	70-130	
Dibromochloromethane	ug/L	50	55.4	111	70-130	
Dichlorodifluoromethane	ug/L	50	38.4	77	33-157	
Ethylbenzene	ug/L	50	54.8	110	70-132	
Isopropylbenzene (Cumene)	ug/L	50	55.3	111	70-130	
m&p-Xylene	ug/L	100	109	109	70-131	
Methyl-tert-butyl ether	ug/L	50	49.2	98	48-141	
Methylene Chloride	ug/L	50	53.6	107	70-130	
o-Xylene	ug/L	50	52.8	106	70-131	
Styrene	ug/L	50	54.9	110	70-130	
Tetrachloroethene	ug/L	50	50.9	102	70-130	
Toluene	ug/L	50	53.1	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.1	108	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.9	96	70-130	
Trichloroethene	ug/L	50	54.1	108	70-130	
Trichlorofluoromethane	ug/L	50	58.5	117	50-150	
Vinyl chloride	ug/L	50	42.6	85	65-142	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			110	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1230837 1230838

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10324016003 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	ND	50	50	57.2	57.8	114	116	70-130	1	20
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	58.0	56.0	116	112	70-130	3	20
1,1,2-Trichloroethane	ug/L	ND	50	50	52.9	52.8	106	106	70-130	0	20
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	54.4	54.5	109	109	50-151	0	20
1,1-Dichloroethane	ug/L	ND	50	50	45.6	46.2	91	92	70-134	1	20
1,1-Dichloroethene	ug/L	ND	50	50	53.5	54.8	107	110	70-139	2	20

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QUALITY CONTROL DATA

Project: BERS#31160024.EPA2012 TOWER ST

Pace Project No.: 10324016

Parameter	Units	10324016003		MS		MSD		1230838					
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	51.4	51.4	102	102	70-130	0	20		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	61.9	62.8	124	126	50-150	1	20		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	56.1	55.9	112	112	70-130	0	20		
1,2-Dichlorobenzene	ug/L	ND	50	50	54.2	53.5	108	107	70-130	1	20		
1,2-Dichloroethane	ug/L	ND	50	50	54.8	55.0	110	110	70-132	0	20		
1,2-Dichloropropane	ug/L	ND	50	50	45.5	45.5	91	91	70-130	0	20		
1,3-Dichlorobenzene	ug/L	ND	50	50	53.4	52.4	106	105	70-130	2	20		
1,4-Dichlorobenzene	ug/L	ND	50	50	52.2	49.5	104	99	70-130	5	20		
Benzene	ug/L	ND	50	50	50.5	51.3	101	103	70-130	2	20		
Bromodichloromethane	ug/L	ND	50	50	54.0	54.4	108	109	70-132	1	20		
Bromoform	ug/L	ND	50	50	57.2	56.0	114	112	68-130	2	20		
Bromomethane	ug/L	ND	50	50	31.4	34.2	63	68	38-141	9	20		
Carbon tetrachloride	ug/L	ND	50	50	59.1	59.7	118	119	70-130	1	20		
Chlorobenzene	ug/L	ND	50	50	52.7	52.8	105	106	70-130	0	20		
Chloroethane	ug/L	ND	50	50	44.5	46.1	89	92	66-152	3	20		
Chloroform	ug/L	ND	50	50	52.9	54.2	106	108	70-130	2	20		
Chloromethane	ug/L	ND	50	50	33.7	36.3	67	72	44-151	7	20		
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.1	53.3	104	107	70-130	2	20		
cis-1,3-Dichloropropene	ug/L	ND	50	50	50.7	51.1	101	102	70-130	1	20		
Dibromochloromethane	ug/L	ND	50	50	55.7	55.6	111	111	70-130	0	20		
Dichlorodifluoromethane	ug/L	ND	50	50	36.5	37.7	73	75	29-160	3	20		
Ethylbenzene	ug/L	ND	50	50	55.9	55.2	112	110	70-132	1	20		
Isopropylbenzene (Cumene)	ug/L	ND	50	50	55.8	55.4	112	111	70-130	1	20		
m&p-Xylene	ug/L	ND	100	100	110	110	110	109	70-131	1	20		
Methyl-tert-butyl ether	ug/L	ND	50	50	49.2	50.2	98	100	48-143	2	20		
Methylene Chloride	ug/L	ND	50	50	51.3	52.9	103	106	70-130	3	20		
o-Xylene	ug/L	ND	50	50	54.0	53.9	108	108	70-131	0	20		
Styrene	ug/L	ND	50	50	55.6	55.3	111	111	70-130	1	20		
Tetrachloroethene	ug/L	ND	50	50	51.0	49.9	102	100	70-130	2	20		
Toluene	ug/L	ND	50	50	53.1	52.5	106	105	70-130	1	20		
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.3	53.9	107	108	70-132	1	20		
trans-1,3-Dichloropropene	ug/L	ND	50	50	48.9	48.3	98	97	70-130	1	20		
Trichloroethene	ug/L	ND	50	50	53.3	53.7	107	107	70-130	1	20		
Trichlorofluoromethane	ug/L	ND	50	50	57.8	58.3	116	117	50-153	1	20		
Vinyl chloride	ug/L	ND	50	50	40.9	42.8	82	86	60-155	4	20		
4-Bromofluorobenzene (S)	%						103	103	70-130				
Dibromofluoromethane (S)	%						108	111	70-130				
Toluene-d8 (S)	%						101	99	70-130				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

QUALIFIERS

Project: BERS#31160024.EPA2012 TOWER ST
Pace Project No.: 10324016

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BERS#31160024.EPA2012 TOWER ST
Pace Project No.: 10324016

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10324016001	1175 HASHELL LAKE LANDING	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016002	1175 HASHELL LAKE LANDING	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016003	1161 HASHELL LAKE LAND	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016005	1167 HASHELL LAKE RD	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016006	DUP-1	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016007	HASHELL LAKE LODGE	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016008	TRIBAL OFFICE	EPA 3020	MPRP/58431	EPA 6020A	ICPM/26829
10324016002	1175 HASHELL LAKE LANDING	EPA 8260		MSV/30425	
10324016003	1161 HASHELL LAKE LAND	EPA 8260		MSV/30425	
10324016005	1167 HASHELL LAKE RD	EPA 8260		MSV/30425	
10324016006	DUP-1	EPA 8260		MSV/30425	
10324016007	HASHELL LAKE LODGE	EPA 8260		MSV/30425	
10324016008	TRIBAL OFFICE	EPA 8260		MSV/30425	
10324016009	TRIP BLANK	EPA 8260		MSV/30425	

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company: Bristol Environmental Sv.
Address: 111 W 16th Ave. 3rd Floor
Anchorage, AK 99501
Email To: Julie Sharp-Dahl
Phone: 907-743-9394

Section B
Required Project Information:

Report To: Julie Sharp-Dahl
Copy To: Lesa Nelson

Purchase Order No.:
Project Name: Tower Standard LUST Site
Project Number: BERS # 3116902-1: EPA 2012

Requested Due Date/TAT:
10 Business days

Section C
Invoice Information:

Attention: Julie Sharp-Dahl
Company Name: Bristol Environmental Sv.
Address: See Client Info
Pace Quote Reference: 00019643

Pace Project Manager: Tim Sundager
Pace Profile #:

Page: _____ of _____

1715045

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____

Site Location:

STATE:

WI

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	SAMPLE ID (A-Z, 0-9 /,-) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	COLLECTED				# OF CONTAINERS	Preservatives	Y/N ↑	↓ Analysis Test ↓	Y/N ↑	Residual Chlorine (Y/N)
					DATE	TIME	DATE	TIME						
1	1175 Haskell Lake Landing	(Filtred) 7	DW	DW	9/24	1:00	15	7	1	H ₂ SO ₄	X X	Cd	X X	Filtered
2	1175 Haskell Lake Landing		WT	WT	9/24	1:00	15	7	2	HNO ₃	X X	Pb	X X X	
3	1161 Haskell Lake Road		WW	WW	9/24	1:40	11	7	2	HCl	X X	VOC	X X X	
4	1161 Haskell Lake RD MS DS		P	P	9/24	1:40	11	12	1	NaOH		EDB	X X X	
5	1167 Haskell Lake RD.		SL	SL	9/24	2:40	11	7	2	Na ₂ S ₂ O ₃		MTBE	X X X	
6	Dup - 1		OL	OL	9/24	2:40	11	7	2	Methanol			X X X	
7	Haskell Lake Lodge		WP	WP	9/24	3:15	12	7	2	Other			X X X X	
8	@ Tribal Office		AR	AR	9/24	3:40	11	7	2				X X X X	
9	TRIP Blank CT 9/28/15		TS	TS										
10			OT	OT										
11														
12														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Luke S. CWL			Amy Yaden Pace	9/28/15	10:15	11.4	7	7	7

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

Lucas Speckeler

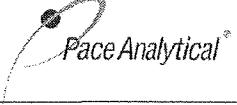
SIGNATURE of SAMPLER:



DATE Signed
(MM/DD/YY): 09/25/15

ORIGINAL

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
------------	-----------------------	-----------------------------	----------------------

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 23Feb2015 Page 1 of 1
	Document No.: F-MN-L-213-rev.13	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt	Client Name: <i>Bristol / CME</i>	Project #:	WO# : 10324016																																																																												
Courier:	<input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client	 10324016																																																																													
<input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input checked="" type="checkbox"/> SpeeDee <input type="checkbox"/> Other: _____																																																																															
Tracking Number:																																																																															
Custody Seal on Cooler/Box Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Optional: Proj. Due Date: Proj. Name: _____																																																																												
Packing Material:	<input checked="" type="checkbox"/> Bubble Wrap <input type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other: _____	Temp Blank? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																													
Thermometer Used:	<input type="checkbox"/> B88A9130516413	Type of Ice: <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> None <input type="checkbox"/> Samples on ice, cooling process has begun	<input type="checkbox"/> B88A912167504 <input type="checkbox"/> B88A0143310098																																																																												
Cooler Temp Read (°C): <i>10.2</i>	Cooler Temp Corrected (°C): <i>10.2</i>	Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A																																																																												
Temp should be above freezing to 6°C		Correction Factor: <i>0.0</i> Date and Initials of Person Examining Contents: <i>ET 9/28/15</i>																																																																													
USDA Regulated Soil (<input checked="" type="checkbox"/> N/A, water sample)																																																																															
Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)?		Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																													
If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.																																																																															
<table border="1"> <thead> <tr> <th colspan="3"></th> <th>COMMENTS:</th> </tr> </thead> <tbody> <tr> <td>Chain of Custody Present?</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td colspan="2">1.</td> </tr> <tr> <td>Chain of Custody Filled Out?</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td colspan="2">2.</td> </tr> <tr> <td>Chain of Custody Relinquished?</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td colspan="2">3.</td> </tr> <tr> <td>Sampler Name and/or Signature on COC?</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td colspan="2">4.</td> </tr> <tr> <td>Samples Arrived within Hold Time?</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td colspan="2">5.</td> </tr> <tr> <td>Short Hold Time Analysis (<72 hr)?</td> <td><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A</td> <td colspan="2">6.</td> </tr> <tr> <td>Rush Turn Around Time Requested?</td> <td><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A</td> <td colspan="2">7.</td> </tr> <tr> <td>Sufficient Volume?</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td colspan="2">8.</td> </tr> <tr> <td>Correct Containers Used? -Pace Containers Used?</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td colspan="2">9.</td> </tr> <tr> <td>Containers Intact?</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td colspan="2">10.</td> </tr> <tr> <td>Filtered Volume Received for Dissolved Tests?</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</td> <td colspan="2">11. 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CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review: *[Signature]*

Date: *9/30/15*

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Chain of Custody

[Signature]

40121974
Page 32 of 33
ce Analytical[®]
www.pacelabs.com

Workorder: 10324016 **Workorder Name:** BERS#31160024.EPA2012 TOWER ST **Owner Received Date:** 9/28/2015 **Results Requested By:** 10/9/2015

Report To		Subcontract To					Requested Analysis												
Timothy Sandager Pace Analytical Services, Inc. 1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Fax (612)607-6444		Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436																	
Item	Sample ID	Sample Type	Collect Date/Time		Lab ID	Matrix	Preserved Containers										Comments	LAB USE ONLY	
			HCL																
1	1175 HASHELL LAKE LANDING	PS	9/24/2015 01:00		10324016002	Water	3										3-40mLvB		
2	1161 HASHELL LAKE LAND	RQS	9/24/2015 01:40		10324016003	Water	9	X									9-40mLvB		
3	1167 HASHELL LAKE RD	PS	9/24/2015 04:40		10324016005	Water	8	3									3-40mLvB		
4	DUP-1	PS	9/24/2015 04:40		10324016006	Water	3	6									6-40mLvB		
5	HASHELL LAKE LODGE	PS	9/24/2015 03:15		10324016007	Water	6	1											
6	TRIBAL OFFICE	PS	9/24/2015 03:40		10324016008	Water	6	1											
7	TRIP BLANK	PS			10324016009	Water	1	1									1-40mLvB		
										Comments									
Transfers	Released By		Date/Time		Received By			Date/Time		Comments									
1																			
2	Wolfe		10/15 0850 Susan Wolfe Pass		109-15			0850											
3																			
Cooler Temperature on Receipt / 35°C					Custody Seal (Y) or N			Received on Ice (Y) or N			Samples Intact (Y) or N								

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.



Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Pace, MN

Project #:

WO#: 40121974

Courier: FedEx UPS Client Pace Other: Walt W
Tracking #: 878051



40121974

Custody Seal on Cooler/Box Present: Yes no Seals intact: Yes No

Custody Seal on Samples Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR32

Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 13.5 + 2 Corr: 13.5 + 2 Biological Tissue is Frozen: Yes

Temp Blank Present: Yes no

no

Person examining contents:

Date: 10-1-15

Initials: SKW

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	4. <u>JRW</u> <u>10-15-15</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Date/Time:	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
-Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>			
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO ₃ , H ₂ SO ₄ ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> completed	initial when completed
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Lab Std #ID of preservative
Trip Blank Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Date/ Time:
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Ca

Date: 10/1/15

October 15, 2015

Matt Faust
Bristol Environmental Remediation Services,
LLC
111 W. 16th Avenue
Anchorage, AK 99501

RE: Project: Bers# 34160024:EPA 2015 TOWER
Pace Project No.: 10325028

Dear Matt Faust:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Timothy Sandager
timothy.sandager@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Bers# 34160024:EPA 2015 TOWER
 Pace Project No.: 10325028

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414	Minnesota Certification #: 027-053-137
A2LA Certification #: 2926.01	Mississippi Certification #: Pace
Alaska Certification #: UST-078	Montana Certification #: MT0092
Alaska Certification #MN00064	Nevada Certification #: MN_00064
Alabama Certification #40770	Nebraska Certification #: Pace
Arizona Certification #: AZ-0014	New Jersey Certification #: MN-002
Arkansas Certification #: 88-0680	New York Certification #: 11647
California Certification #: 01155CA	North Carolina Certification #: 530
Colorado Certification #Pace	North Carolina State Public Health #: 27700
Connecticut Certification #: PH-0256	North Dakota Certification #: R-036
EPA Region 8 Certification #: 8TMS-L	Ohio EPA #: 4150
Florida/NELAP Certification #: E87605	Ohio VAP Certification #: CL101
Guam Certification #:14-008r	Oklahoma Certification #: 9507
Georgia Certification #: 959	Oregon Certification #: MN200001
Georgia EPD #: Pace	Oregon Certification #: MN300001
Idaho Certification #: MN00064	Pennsylvania Certification #: 68-00563
Hawaii Certification #MN00064	Puerto Rico Certification
Illinois Certification #: 200011	Saipan (CNMI) #:MP0003
Indiana Certification#C-MN-01	South Carolina #:74003001
Iowa Certification #: 368	Texas Certification #: T104704192
Kansas Certification #: E-10167	Tennessee Certification #: 02818
Kentucky Dept of Envi. Protection - DW #90062	Utah Certification #: MN000642013-4
Kentucky Dept of Envi. Protection - WW #:90062	Virginia DGS Certification #: 251
Louisiana DEQ Certification #: 3086	Washington Certification #: C486
Louisiana DHH #: LA140001	West Virginia Certification #: 382
Maine Certification #: 2013011	West Virginia DHHR #:9952C
Maryland Certification #: 322	Wisconsin Certification #: 999407970
Michigan DEPH Certification #: 9909	

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SAMPLE SUMMARY

Project: Bers# 34160024:EPA 2015 TOWER
Pace Project No.: 10325028

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10325028001	14299 STATE HIGHWAY 70	Water	10/03/15 09:17	10/06/15 12:20

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SAMPLE ANALYTE COUNT

Project: Bers# 34160024:EPA 2015 TOWER
Pace Project No.: 10325028

Lab ID	Sample ID	Method	Analysts	Analytics Reported
10325028001	14299 STATE HIGHWAY 70	EPA 6020A	TT3	2
		EPA 8270D by SIM	AS1	18
		EPA 8260B	LPM	70

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SUMMARY OF DETECTION

Project: Bers# 34160024:EPA 2015 TOWER
Pace Project No.: 10325028

Lab Sample ID	Client Sample ID	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10325028001	14299 STATE HIGHWAY 70						
EPA 6020A	Lead		0.49	ug/L	0.10	10/09/15 19:13	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Bers# 34160024:EPA 2015 TOWER
Pace Project No.: 10325028

Method: **EPA 6020A**
Description: 6020A MET ICPMS
Client: Bristol Environmental Remediation Services, LLC
Date: October 15, 2015

General Information:

1 sample was analyzed for EPA 6020A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Bers# 34160024:EPA 2015 TOWER

Pace Project No.: 10325028

Method: **EPA 8270D by SIM**

Description: 8270D MSSV PAH by SIM

Client: Bristol Environmental Remediation Services, LLC

Date: October 15, 2015

General Information:

1 sample was analyzed for EPA 8270D by SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/31089

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: Bers# 34160024:EPA 2015 TOWER
Pace Project No.: 10325028

Method: **EPA 8260B**
Description: 8260B MSV
Client: Bristol Environmental Remediation Services, LLC
Date: October 15, 2015

General Information:

1 sample was analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bers# 34160024:EPA 2015 TOWER

Pace Project No.: 10325028

Sample: 14299 STATE HIGHWAY 70	Lab ID: 10325028001	Collected: 10/03/15 09:17	Received: 10/06/15 12:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3020							
Cadmium	ND	ug/L	0.080	1	10/09/15 08:49	10/09/15 19:13	7440-43-9	
Lead	0.49	ug/L	0.10	1	10/09/15 08:49	10/09/15 19:13	7439-92-1	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	83-32-9	
Acenaphthylene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	208-96-8	
Anthracene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	207-08-9	
Chrysene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	53-70-3	
Fluoranthene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	206-44-0	
Fluorene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	193-39-5	
Naphthalene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	91-20-3	
Phenanthrene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	85-01-8	
Pyrene	ND	ug/L	0.043	1	10/07/15 07:58	10/07/15 16:13	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	79	%.	52-125	1	10/07/15 07:58	10/07/15 16:13	321-60-8	
p-Terphenyl-d14 (S)	93	%.	62-125	1	10/07/15 07:58	10/07/15 16:13	1718-51-0	
8260B MSV	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	20.0	1		10/14/15 05:28	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		10/14/15 05:28	107-05-1	
Benzene	ND	ug/L	1.0	1		10/14/15 05:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/14/15 05:28	108-86-1	
Bromoform	ND	ug/L	1.0	1		10/14/15 05:28	74-97-5	
Bromoform	ND	ug/L	1.0	1		10/14/15 05:28	75-27-4	
Bromoform	ND	ug/L	4.0	1		10/14/15 05:28	75-25-2	
Bromomethane	ND	ug/L	4.0	1		10/14/15 05:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/14/15 05:28	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		10/14/15 05:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/14/15 05:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/14/15 05:28	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/14/15 05:28	67-66-3	
Chloromethane	ND	ug/L	4.0	1		10/14/15 05:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/14/15 05:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/14/15 05:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		10/14/15 05:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/14/15 05:28	124-48-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bers# 34160024:EPA 2015 TOWER

Pace Project No.: 10325028

Sample: 14299 STATE HIGHWAY 70	Lab ID: 10325028001	Collected: 10/03/15 09:17	Received: 10/06/15 12:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Dibromomethane	ND	ug/L	4.0	1		10/14/15 05:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/14/15 05:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/14/15 05:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/14/15 05:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/14/15 05:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/14/15 05:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/14/15 05:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/14/15 05:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/14/15 05:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/14/15 05:28	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		10/14/15 05:28	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		10/14/15 05:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/14/15 05:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		10/14/15 05:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/14/15 05:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		10/14/15 05:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		10/14/15 05:28	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		10/14/15 05:28	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/14/15 05:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		10/14/15 05:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/14/15 05:28	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		10/14/15 05:28	75-09-2	
2-Methylnaphthalene	ND	ug/L	5.0	1		10/14/15 05:28	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/14/15 05:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/14/15 05:28	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		10/14/15 05:28	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	103-65-1	
Styrene	ND	ug/L	1.0	1		10/14/15 05:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/14/15 05:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/14/15 05:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/14/15 05:28	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		10/14/15 05:28	109-99-9	
Toluene	ND	ug/L	1.0	1		10/14/15 05:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/14/15 05:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/14/15 05:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/14/15 05:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/14/15 05:28	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		10/14/15 05:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/14/15 05:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		10/14/15 05:28	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		10/14/15 05:28	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/14/15 05:28	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		10/14/15 05:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/14/15 05:28	1330-20-7	

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ANALYTICAL RESULTS

Project: Bers# 34160024:EPA 2015 TOWER

Pace Project No.: 10325028

Sample: 14299 STATE HIGHWAY 70	Lab ID: 10325028001	Collected: 10/03/15 09:17	Received: 10/06/15 12:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Surrogates								
1,2-Dichloroethane-d4 (S)	86	%.	75-125	1		10/14/15 05:28	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1		10/14/15 05:28	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1		10/14/15 05:28	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER

Pace Project No.: 10325028

QC Batch:	MPRP/58535	Analysis Method:	EPA 6020A
QC Batch Method:	EPA 3020	Analysis Description:	6020A Water UPD4
Associated Lab Samples: 10325028001			

METHOD BLANK: 2101225 Matrix: Water

Associated Lab Samples: 10325028001

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Cadmium	ug/L	ND	0.080	10/09/15 19:03	
Lead	ug/L	ND	0.10	10/09/15 19:03	

LABORATORY CONTROL SAMPLE: 2101226

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Cadmium	ug/L	80	88.9	111	80-120	
Lead	ug/L	80	87.4	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102291 2102292

Parameter	Units	10325028001	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike										
Cadmium	ug/L	ND	80	80	95.0	85.9	119	107	75-125	10	20			
Lead	ug/L	0.49	80	80	94.7	88.4	118	110	75-125	7	20			

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QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER

Pace Project No.: 10325028

QC Batch:	MSV/33416	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV
Associated Lab Samples:	10325028001		

METHOD BLANK: 2106225 Matrix: Water

Associated Lab Samples: 10325028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/14/15 01:12	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/14/15 01:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/14/15 01:12	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/14/15 01:12	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/14/15 01:12	
1,1-Dichloroethane	ug/L	ND	1.0	10/14/15 01:12	
1,1-Dichloroethene	ug/L	ND	1.0	10/14/15 01:12	
1,1-Dichloropropene	ug/L	ND	1.0	10/14/15 01:12	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/14/15 01:12	
1,2,3-Trichloropropane	ug/L	ND	4.0	10/14/15 01:12	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/14/15 01:12	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/14/15 01:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/14/15 01:12	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/14/15 01:12	
1,2-Dichloroethane	ug/L	ND	1.0	10/14/15 01:12	
1,2-Dichloropropane	ug/L	ND	4.0	10/14/15 01:12	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/14/15 01:12	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/14/15 01:12	
1,3-Dichloropropane	ug/L	ND	1.0	10/14/15 01:12	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/14/15 01:12	
2,2-Dichloropropane	ug/L	ND	4.0	10/14/15 01:12	
2-Butanone (MEK)	ug/L	ND	5.0	10/14/15 01:12	
2-Chlorotoluene	ug/L	ND	1.0	10/14/15 01:12	
2-Methylnaphthalene	ug/L	ND	5.0	10/14/15 01:12	
4-Chlorotoluene	ug/L	ND	1.0	10/14/15 01:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/14/15 01:12	
Acetone	ug/L	ND	20.0	10/14/15 01:12	
Allyl chloride	ug/L	ND	4.0	10/14/15 01:12	
Benzene	ug/L	ND	1.0	10/14/15 01:12	
Bromobenzene	ug/L	ND	1.0	10/14/15 01:12	
Bromochloromethane	ug/L	ND	1.0	10/14/15 01:12	
Bromodichloromethane	ug/L	ND	1.0	10/14/15 01:12	
Bromoform	ug/L	ND	4.0	10/14/15 01:12	
Bromomethane	ug/L	ND	4.0	10/14/15 01:12	
Carbon tetrachloride	ug/L	ND	1.0	10/14/15 01:12	
Chlorobenzene	ug/L	ND	1.0	10/14/15 01:12	
Chloroethane	ug/L	ND	1.0	10/14/15 01:12	
Chloroform	ug/L	ND	1.0	10/14/15 01:12	
Chloromethane	ug/L	ND	4.0	10/14/15 01:12	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/14/15 01:12	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/14/15 01:12	

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QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER

Pace Project No.: 10325028

METHOD BLANK: 2106225

Matrix: Water

Associated Lab Samples: 10325028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	10/14/15 01:12	
Dibromomethane	ug/L	ND	4.0	10/14/15 01:12	
Dichlorodifluoromethane	ug/L	ND	1.0	10/14/15 01:12	
Dichlorofluoromethane	ug/L	ND	1.0	10/14/15 01:12	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/14/15 01:12	
Ethylbenzene	ug/L	ND	1.0	10/14/15 01:12	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/14/15 01:12	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/14/15 01:12	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/14/15 01:12	
Methylene Chloride	ug/L	ND	4.0	10/14/15 01:12	
n-Butylbenzene	ug/L	ND	1.0	10/14/15 01:12	
n-Propylbenzene	ug/L	ND	1.0	10/14/15 01:12	
Naphthalene	ug/L	ND	4.0	10/14/15 01:12	
p-Isopropyltoluene	ug/L	ND	1.0	10/14/15 01:12	
sec-Butylbenzene	ug/L	ND	1.0	10/14/15 01:12	
Styrene	ug/L	ND	1.0	10/14/15 01:12	
tert-Butylbenzene	ug/L	ND	1.0	10/14/15 01:12	
Tetrachloroethene	ug/L	ND	1.0	10/14/15 01:12	
Tetrahydrofuran	ug/L	ND	10.0	10/14/15 01:12	
Toluene	ug/L	ND	1.0	10/14/15 01:12	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/14/15 01:12	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/14/15 01:12	
Trichloroethene	ug/L	ND	0.40	10/14/15 01:12	
Trichlorofluoromethane	ug/L	ND	1.0	10/14/15 01:12	
Vinyl chloride	ug/L	ND	0.40	10/14/15 01:12	
Xylene (Total)	ug/L	ND	3.0	10/14/15 01:12	
1,2-Dichloroethane-d4 (S)	%.	91	75-125	10/14/15 01:12	
4-Bromofluorobenzene (S)	%.	104	75-125	10/14/15 01:12	
Toluene-d8 (S)	%.	100	75-125	10/14/15 01:12	

LABORATORY CONTROL SAMPLE: 2106226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.8	94	75-125	
1,1,1-Trichloroethane	ug/L	20	17.6	88	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	17.8	89	75-125	
1,1,2-Trichloroethane	ug/L	20	18.9	94	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.2	91	60-135	
1,1-Dichloroethane	ug/L	20	17.9	90	69-125	
1,1-Dichloroethene	ug/L	20	18.4	92	68-125	
1,1-Dichloropropene	ug/L	20	18.0	90	74-125	
1,2,3-Trichlorobenzene	ug/L	20	17.3	87	69-136	
1,2,3-Trichloropropane	ug/L	20	18.9	95	75-125	
1,2,4-Trichlorobenzene	ug/L	20	17.6	88	73-127	

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QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER

Pace Project No.: 10325028

LABORATORY CONTROL SAMPLE: 2106226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.9	99	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	42.6	85	65-145	
1,2-Dichlorobenzene	ug/L	20	18.6	93	75-125	
1,2-Dichloroethane	ug/L	20	18.0	90	73-125	
1,2-Dichloropropane	ug/L	20	19.1	95	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.9	95	75-125	
1,3-Dichlorobenzene	ug/L	20	18.7	94	74-125	
1,3-Dichloropropane	ug/L	20	19.0	95	75-125	
1,4-Dichlorobenzene	ug/L	20	18.4	92	75-125	
2,2-Dichloropropane	ug/L	20	16.1	81	59-139	
2-Butanone (MEK)	ug/L	100	82.9	83	63-130	
2-Chlorotoluene	ug/L	20	18.8	94	72-125	
2-Methylnaphthalene	ug/L	10	8.1	81	67-125	
4-Chlorotoluene	ug/L	20	19.0	95	73-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.0	92	71-126	
Acetone	ug/L	100	106	106	69-131	
Allyl chloride	ug/L	20	17.5	87	67-125	
Benzene	ug/L	20	17.5	88	71-125	
Bromobenzene	ug/L	20	18.7	94	75-125	
Bromochloromethane	ug/L	20	19.0	95	75-125	
Bromodichloromethane	ug/L	20	19.0	95	75-125	
Bromoform	ug/L	20	18.1	90	70-125	
Bromomethane	ug/L	20	14.8	74	30-150	
Carbon tetrachloride	ug/L	20	19.3	96	75-126	
Chlorobenzene	ug/L	20	19.3	97	75-125	
Chloroethane	ug/L	20	18.1	91	65-134	
Chloroform	ug/L	20	17.6	88	75-125	
Chloromethane	ug/L	20	15.9	80	39-150	
cis-1,2-Dichloroethene	ug/L	20	17.4	87	72-125	
cis-1,3-Dichloropropene	ug/L	20	19.3	96	75-125	
Dibromochloromethane	ug/L	20	19.1	96	75-125	
Dibromomethane	ug/L	20	19.6	98	75-125	
Dichlorodifluoromethane	ug/L	20	16.4	82	50-134	
Dichlorofluoromethane	ug/L	20	18.0	90	69-125	
Diethyl ether (Ethyl ether)	ug/L	20	18.5	92	72-125	
Ethylbenzene	ug/L	20	19.6	98	75-125	
Hexachloro-1,3-butadiene	ug/L	20	18.0	90	70-138	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	75-125	
Methyl-tert-butyl ether	ug/L	20	17.4	87	73-125	
Methylene Chloride	ug/L	20	18.0	90	73-125	
n-Butylbenzene	ug/L	20	18.3	92	72-133	
n-Propylbenzene	ug/L	20	19.0	95	72-126	
Naphthalene	ug/L	20	16.9	85	70-127	
p-Isopropyltoluene	ug/L	20	19.4	97	72-132	
sec-Butylbenzene	ug/L	20	19.2	96	73-132	
Styrene	ug/L	20	20.7	104	75-125	
tert-Butylbenzene	ug/L	20	18.1	90	73-128	

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QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER

Pace Project No.: 10325028

LABORATORY CONTROL SAMPLE: 2106226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	18.6	93	74-125	
Tetrahydrofuran	ug/L	200	200	100	62-133	
Toluene	ug/L	20	18.9	94	74-125	
trans-1,2-Dichloroethene	ug/L	20	18.4	92	69-125	
trans-1,3-Dichloropropene	ug/L	20	19.1	96	75-125	
Trichloroethene	ug/L	20	18.6	93	75-125	
Trichlorofluoromethane	ug/L	20	18.8	94	74-127	
Vinyl chloride	ug/L	20	16.5	83	66-132	
Xylene (Total)	ug/L	60	59.9	100	75-125	
1,2-Dichloroethane-d4 (S)	%.			92	75-125	
4-Bromofluorobenzene (S)	%.			97	75-125	
Toluene-d8 (S)	%.			99	75-125	

MATRIX SPIKE SAMPLE: 2107624

Parameter	Units	10324518001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.8	99	70-138	
1,1,1-Trichloroethane	ug/L	ND	20	18.8	94	55-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.4	97	64-140	
1,1,2-Trichloroethane	ug/L	ND	20	19.9	99	67-137	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	21.7	108	51-150	
1,1-Dichloroethane	ug/L	ND	20	18.8	94	49-150	
1,1-Dichloroethene	ug/L	ND	20	20.4	102	40-150	
1,1-Dichloropropene	ug/L	ND	20	19.1	96	50-150	
1,2,3-Trichlorobenzene	ug/L	ND	20	18.0	90	59-148	
1,2,3-Trichloropropane	ug/L	ND	20	19.9	99	65-141	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.1	91	61-140	
1,2,4-Trimethylbenzene	ug/L	ND	20	20.6	103	58-141	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	47.8	96	53-150	
1,2-Dichlorobenzene	ug/L	ND	20	19.1	95	66-133	
1,2-Dichloroethane	ug/L	ND	20	17.8	89	54-138	
1,2-Dichloropropene	ug/L	ND	20	20.4	102	62-138	
1,3,5-Trimethylbenzene	ug/L	ND	20	19.8	99	58-140	
1,3-Dichlorobenzene	ug/L	ND	20	19.3	97	66-132	
1,3-Dichloropropane	ug/L	ND	20	19.5	97	66-134	
1,4-Dichlorobenzene	ug/L	ND	20	19.0	95	65-129	
2,2-Dichloropropane	ug/L	ND	20	17.2	86	40-150	
2-Butanone (MEK)	ug/L	ND	100	89.3	89	51-147	
2-Chlorotoluene	ug/L	ND	20	19.8	99	58-147	
2-Methylnaphthalene	ug/L	ND	10	8.4	84	38-148	
4-Chlorotoluene	ug/L	ND	20	19.9	99	64-138	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	102	102	59-143	
Acetone	ug/L	ND	100	104	104	63-147	
Allyl chloride	ug/L	ND	20	18.4	92	45-150	
Benzene	ug/L	ND	20	18.9	94	53-139	

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QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER

Pace Project No.: 10325028

MATRIX SPIKE SAMPLE:	2107624						
Parameter	Units	10324518001	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/L	ND	20	19.4	97	66-136	
Bromoform	ug/L	ND	20	20.4	102	66-138	
Bromochloromethane	ug/L	ND	20	18.5	93	64-136	
Bromodichloromethane	ug/L	ND	20	20.3	101	59-136	
Bromomethane	ug/L	ND	20	16.2	81	30-150	
Carbon tetrachloride	ug/L	ND	20	21.4	107	56-150	
Chlorobenzene	ug/L	ND	20	20.0	100	65-133	
Chloroethane	ug/L	ND	20	19.1	95	48-150	
Chloroform	ug/L	ND	20	18.3	92	57-145	
Chloromethane	ug/L	ND	20	17.5	87	30-150	
cis-1,2-Dichloroethene	ug/L	ND	20	18.4	92	49-150	
cis-1,3-Dichloropropene	ug/L	ND	20	18.9	94	64-130	
Dibromochloromethane	ug/L	ND	20	19.8	99	68-138	
Dibromomethane	ug/L	ND	20	20.0	100	67-134	
Dichlorodifluoromethane	ug/L	ND	20	21.1	106	45-150	
Dichlorofluoromethane	ug/L	ND	20	19.2	96	54-150	
Diethyl ether (Ethyl ether)	ug/L	ND	20	18.8	94	50-145	
Ethylbenzene	ug/L	ND	20	21.1	105	55-139	
Hexachloro-1,3-butadiene	ug/L	ND	20	18.2	91	49-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	21.9	109	64-142	
Methyl-tert-butyl ether	ug/L	ND	20	18.4	92	62-129	
Methylene Chloride	ug/L	ND	20	18.3	92	57-132	
n-Butylbenzene	ug/L	ND	20	19.6	98	55-150	
n-Propylbenzene	ug/L	ND	20	20.6	103	59-142	
Naphthalene	ug/L	ND	20	18.0	90	51-150	
p-Isopropyltoluene	ug/L	ND	20	20.5	103	60-149	
sec-Butylbenzene	ug/L	ND	20	20.7	104	60-150	
Styrene	ug/L	ND	20	21.4	107	68-134	
tert-Butylbenzene	ug/L	ND	20	19.5	97	62-146	
Tetrachloroethene	ug/L	ND	20	21.0	105	50-150	
Tetrahydrofuran	ug/L	ND	200	219	107	59-145	
Toluene	ug/L	ND	20	19.7	98	52-148	
trans-1,2-Dichloroethene	ug/L	ND	20	19.9	100	45-150	
trans-1,3-Dichloropropene	ug/L	ND	20	19.5	97	68-132	
Trichloroethene	ug/L	ND	20	20.3	101	52-150	
Trichlorofluoromethane	ug/L	ND	20	21.4	107	55-150	
Vinyl chloride	ug/L	ND	20	18.2	91	43-150	
Xylene (Total)	ug/L	ND	60	63.6	106	54-144	
1,2-Dichloroethane-d4 (S)	%.				91	75-125	
4-Bromofluorobenzene (S)	%.				97	75-125	
Toluene-d8 (S)	%.				97	75-125	

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QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER

Pace Project No.: 10325028

SAMPLE DUPLICATE: 2107625

Parameter	Units	10324546004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropene	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Methylnaphthalene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	1.2J		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER
Pace Project No.: 10325028

SAMPLE DUPLICATE: 2107625

Parameter	Units	10324546004 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	5.2J		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	91	91	0		
4-Bromofluorobenzene (S)	%.	99	101	2		
Toluene-d8 (S)	%.	100	98	2		

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QUALITY CONTROL DATA

Project: Bers# 34160024:EPA 2015 TOWER

Pace Project No.: 10325028

QC Batch:	OEXT/31089	Analysis Method:	EPA 8270D by SIM
QC Batch Method:	EPA 3510C	Analysis Description:	8270D PAH by SIM MSSV
Associated Lab Samples: 10325028001			

METHOD BLANK: 2100886 Matrix: Water

Associated Lab Samples: 10325028001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	10/07/15 13:39	
Acenaphthylene	ug/L	ND	0.040	10/07/15 13:39	
Anthracene	ug/L	ND	0.040	10/07/15 13:39	
Benzo(a)anthracene	ug/L	ND	0.040	10/07/15 13:39	
Benzo(a)pyrene	ug/L	ND	0.040	10/07/15 13:39	
Benzo(b)fluoranthene	ug/L	ND	0.040	10/07/15 13:39	
Benzo(g,h,i)perylene	ug/L	ND	0.040	10/07/15 13:39	
Benzo(k)fluoranthene	ug/L	ND	0.040	10/07/15 13:39	
Chrysene	ug/L	ND	0.040	10/07/15 13:39	
Dibenz(a,h)anthracene	ug/L	ND	0.040	10/07/15 13:39	
Fluoranthene	ug/L	ND	0.040	10/07/15 13:39	
Fluorene	ug/L	ND	0.040	10/07/15 13:39	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	10/07/15 13:39	
Naphthalene	ug/L	ND	0.040	10/07/15 13:39	
Phenanthrene	ug/L	ND	0.040	10/07/15 13:39	
Pyrene	ug/L	ND	0.040	10/07/15 13:39	
2-Fluorobiphenyl (S)	%.	90	52-125	10/07/15 13:39	
p-Terphenyl-d14 (S)	%.	102	62-125	10/07/15 13:39	

LABORATORY CONTROL SAMPLE & LCSD: 2100887

2100888

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	1	0.74	0.76	74	76	44-125	3	20	
Acenaphthylene	ug/L	1	0.75	0.79	75	79	44-125	5	20	
Anthracene	ug/L	1	0.88	0.91	88	91	55-125	3	20	
Benzo(a)anthracene	ug/L	1	0.83	0.85	83	85	56-125	2	20	
Benzo(a)pyrene	ug/L	1	0.93	0.95	93	95	61-125	2	20	
Benzo(b)fluoranthene	ug/L	1	0.97	0.96	97	96	60-125	0	20	
Benzo(g,h,i)perylene	ug/L	1	0.92	0.94	92	94	53-125	2	20	
Benzo(k)fluoranthene	ug/L	1	0.85	0.87	85	87	59-125	3	20	
Chrysene	ug/L	1	0.85	0.87	85	87	61-125	2	20	
Dibenz(a,h)anthracene	ug/L	1	0.90	0.90	90	90	51-125	0	20	
Fluoranthene	ug/L	1	0.88	0.88	88	88	64-125	0	20	
Fluorene	ug/L	1	0.81	0.85	81	85	52-125	4	20	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.89	0.90	89	90	54-125	1	20	
Naphthalene	ug/L	1	0.72	0.75	72	75	35-125	4	20	
Phenanthrene	ug/L	1	0.77	0.78	77	78	55-125	2	20	
Pyrene	ug/L	1	0.90	0.90	90	90	59-125	1	20	
2-Fluorobiphenyl (S)	%.				77	80	52-125			
p-Terphenyl-d14 (S)	%.				92	94	62-125			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Bers# 34160024:EPA 2015 TOWER
Pace Project No.: 10325028

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSSV/13211

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bers# 34160024:EPA 2015 TOWER
 Pace Project No.: 10325028

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10325028001	14299 STATE HIGHWAY 70	EPA 3020	MPRP/58535	EPA 6020A	ICPM/26830
10325028001	14299 STATE HIGHWAY 70	EPA 3510C	OEXT/31089	EPA 8270D by SIM	MSSV/13211
10325028001	14299 STATE HIGHWAY 70	EPA 8260B	MSV/33416		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a **LEGAL DOCUMENT**. All relevant fields must be completed accurately.

10325028

***Important Note:** By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

October 26, 2015

Matt Faust
Bristol Environmental Remediation Services,
LLC
111 W. 16th Avenue
Anchorage, AK 99501

RE: Project: BERS#34160024; EPA TO 2012 Tow
Pace Project No.: 10326135

Dear Matt Faust:

Enclosed are the analytical results for sample(s) received by the laboratory on October 14, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Timothy Sandager
timothy.sandager@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BERS#34160024; EPA TO 2012 Tow
 Pace Project No.: 10326135

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
 A2LA Certification #: 2926.01
 Alaska Certification #: UST-078
 Alaska Certification #MN00064
 Alabama Certification #40770
 Arizona Certification #: AZ-0014
 Arkansas Certification #: 88-0680
 California Certification #: 01155CA
 Colorado Certification #Pace
 Connecticut Certification #: PH-0256
 EPA Region 8 Certification #: 8TMS-L
 Florida/NELAP Certification #: E87605
 Guam Certification #:14-008r
 Georgia Certification #: 959
 Georgia EPD #: Pace
 Idaho Certification #: MN00064
 Hawaii Certification #MN00064
 Illinois Certification #: 200011
 Indiana Certification#C-MN-01
 Iowa Certification #: 368
 Kansas Certification #: E-10167
 Kentucky Dept of Envi. Protection - DW #90062
 Kentucky Dept of Envi. Protection - WW #:90062
 Louisiana DEQ Certification #: 3086
 Louisiana DHH #: LA140001
 Maine Certification #: 2013011
 Maryland Certification #: 322
 Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137
 Mississippi Certification #: Pace
 Montana Certification #: MT0092
 Nevada Certification #: MN_00064
 Nebraska Certification #: Pace
 New Jersey Certification #: MN-002
 New York Certification #: 11647
 North Carolina Certification #: 530
 North Carolina State Public Health #: 27700
 North Dakota Certification #: R-036
 Ohio EPA #: 4150
 Ohio VAP Certification #: CL101
 Oklahoma Certification #: 9507
 Oregon Certification #: MN200001
 Oregon Certification #: MN300001
 Pennsylvania Certification #: 68-00563
 Puerto Rico Certification
 Saipan (CNMI) #:MP0003
 South Carolina #:74003001
 Texas Certification #: T104704192
 Tennessee Certification #: 02818
 Utah Certification #: MN000642013-4
 Virginia DGS Certification #: 251
 Washington Certification #: C486
 West Virginia Certification #: 382
 West Virginia DHHR #:9952C
 Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: BERS#34160024; EPA TO 2012 Tow
Pace Project No.: 10326135

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10326135001	1285 Hakell Lake Landing	Water	10/12/15 11:00	10/14/15 12:29

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BERS#34160024; EPA TO 2012 Tow
 Pace Project No.: 10326135

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10326135001	1285 Hakell Lake Landing	EPA 6010	IP	2	PASI-M
		EPA 8270D by SIM	AS1	18	PASI-M
		EPA 8260B	LPM	70	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

Sample: 1285 Hakell Lake Landing Lab ID: 10326135001 Collected: 10/12/15 11:00 Received: 10/14/15 12:29 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Cadmium	ND	ug/L	3.0	0.65	1	10/22/15 06:40	10/23/15 15:17	7440-43-9	
Lead	ND	ug/L	10.0	2.0	1	10/22/15 06:40	10/23/15 15:17	7439-92-1	
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3510C								
Acenaphthene	ND	ug/L	0.045	0.0036	1	10/19/15 08:37	10/19/15 15:01	83-32-9	
Acenaphthylene	ND	ug/L	0.045	0.0044	1	10/19/15 08:37	10/19/15 15:01	208-96-8	
Anthracene	ND	ug/L	0.045	0.0050	1	10/19/15 08:37	10/19/15 15:01	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.045	0.0033	1	10/19/15 08:37	10/19/15 15:01	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.045	0.0034	1	10/19/15 08:37	10/19/15 15:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.045	0.0086	1	10/19/15 08:37	10/19/15 15:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.045	0.0061	1	10/19/15 08:37	10/19/15 15:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.045	0.0042	1	10/19/15 08:37	10/19/15 15:01	207-08-9	
Chrysene	ND	ug/L	0.045	0.0059	1	10/19/15 08:37	10/19/15 15:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.045	0.011	1	10/19/15 08:37	10/19/15 15:01	53-70-3	
Fluoranthene	ND	ug/L	0.045	0.0064	1	10/19/15 08:37	10/19/15 15:01	206-44-0	
Fluorene	ND	ug/L	0.045	0.0063	1	10/19/15 08:37	10/19/15 15:01	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.045	0.0062	1	10/19/15 08:37	10/19/15 15:01	193-39-5	
Naphthalene	ND	ug/L	0.045	0.010	1	10/19/15 08:37	10/19/15 15:01	91-20-3	
Phenanthrene	ND	ug/L	0.045	0.014	1	10/19/15 08:37	10/19/15 15:01	85-01-8	
Pyrene	ND	ug/L	0.045	0.0072	1	10/19/15 08:37	10/19/15 15:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%.	52-125		1	10/19/15 08:37	10/19/15 15:01	321-60-8	
p-Terphenyl-d14 (S)	82	%.	62-125		1	10/19/15 08:37	10/19/15 15:01	1718-51-0	
8260B VOC	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	20.0	7.1	1		10/20/15 02:54	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.58	1		10/20/15 02:54	107-05-1	
Benzene	ND	ug/L	1.0	0.21	1		10/20/15 02:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.25	1		10/20/15 02:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		10/20/15 02:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/20/15 02:54	75-27-4	
Bromoform	ND	ug/L	4.0	0.41	1		10/20/15 02:54	75-25-2	
Bromomethane	ND	ug/L	4.0	0.36	1		10/20/15 02:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	2.5	1		10/20/15 02:54	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.083	1		10/20/15 02:54	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.16	1		10/20/15 02:54	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.18	1		10/20/15 02:54	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.35	1		10/20/15 02:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/20/15 02:54	108-90-7	
Chloroethane	ND	ug/L	4.0	0.34	1		10/20/15 02:54	75-00-3	
Chloroform	ND	ug/L	1.0	0.27	1		10/20/15 02:54	67-66-3	
Chloromethane	ND	ug/L	4.0	0.64	1		10/20/15 02:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.22	1		10/20/15 02:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.24	1		10/20/15 02:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.70	1		10/20/15 02:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		10/20/15 02:54	124-48-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

Sample: 1285 Hakell Lake Landing Lab ID: 10326135001 Collected: 10/12/15 11:00 Received: 10/14/15 12:29 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.23	1		10/20/15 02:54	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.31	1		10/20/15 02:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.22	1		10/20/15 02:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.21	1		10/20/15 02:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.16	1		10/20/15 02:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.49	1		10/20/15 02:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.22	1		10/20/15 02:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		10/20/15 02:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.22	1		10/20/15 02:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		10/20/15 02:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.21	1		10/20/15 02:54	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.22	1		10/20/15 02:54	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.42	1		10/20/15 02:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.24	1		10/20/15 02:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.36	1		10/20/15 02:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.16	1		10/20/15 02:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.21	1		10/20/15 02:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.22	1		10/20/15 02:54	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.38	1		10/20/15 02:54	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.23	1		10/20/15 02:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.48	1		10/20/15 02:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.17	1		10/20/15 02:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.16	1		10/20/15 02:54	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.56	1		10/20/15 02:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	2.4	1		10/20/15 02:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.20	1		10/20/15 02:54	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.14	1		10/20/15 02:54	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.21	1		10/20/15 02:54	103-65-1	
Styrene	ND	ug/L	1.0	0.11	1		10/20/15 02:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.20	1		10/20/15 02:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		10/20/15 02:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.19	1		10/20/15 02:54	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	4.0	1		10/20/15 02:54	109-99-9	
Toluene	ND	ug/L	1.0	0.13	1		10/20/15 02:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.23	1		10/20/15 02:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		10/20/15 02:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.20	1		10/20/15 02:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		10/20/15 02:54	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.14	1		10/20/15 02:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.18	1		10/20/15 02:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.50	1		10/20/15 02:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.42	1		10/20/15 02:54	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.16	1		10/20/15 02:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.20	1		10/20/15 02:54	108-67-8	
Vinyl chloride	ND	ug/L	0.40	0.15	1		10/20/15 02:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.60	1		10/20/15 02:54	1330-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

Sample: 1285 Hakell Lake Landing Lab ID: 10326135001 Collected: 10/12/15 11:00 Received: 10/14/15 12:29 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC									Analytical Method: EPA 8260B
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%.	75-125		1		10/20/15 02:54	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1		10/20/15 02:54	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		10/20/15 02:54	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

QC Batch:	MPRP/58907	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples: 10326135001			

METHOD BLANK: 2112756 Matrix: Water

Associated Lab Samples: 10326135001

Parameter	Units	Blank Result	Reporting Limit		Analyzed	Qualifiers
			3.0	10/23/15 15:10		
Cadmium	ug/L	ND				
Lead	ug/L	ND	10.0	10/23/15 15:10		

LABORATORY CONTROL SAMPLE: 2112757

Parameter	Units	Spike Conc.	LCS Result		% Rec % Rec	% Rec Limits	Qualifiers
			LCS	% Rec			
Cadmium	ug/L	1000	1060	106	80-120		
Lead	ug/L	1000	936	94	80-120		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2112758 2112759

Parameter	Units	10326135001 Result	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec	Max
			Conc.	Conc.	Result	Result	% Rec	% Rec	RPD RPD	Qual
Cadmium	ug/L	ND	1000	1000	1060	1030	106	103	75-125	3 20
Lead	ug/L	ND	1000	1000	941	922	94	92	75-125	2 20

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QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

QC Batch:	MSV/33481	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV 465 W
Associated Lab Samples:	10326135001		

METHOD BLANK: 2111822 Matrix: Water

Associated Lab Samples: 10326135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/19/15 23:46	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/19/15 23:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/19/15 23:46	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/19/15 23:46	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	10/19/15 23:46	
1,1-Dichloroethane	ug/L	ND	1.0	10/19/15 23:46	
1,1-Dichloroethene	ug/L	ND	1.0	10/19/15 23:46	
1,1-Dichloropropene	ug/L	ND	1.0	10/19/15 23:46	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/19/15 23:46	
1,2,3-Trichloropropane	ug/L	ND	4.0	10/19/15 23:46	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/19/15 23:46	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/19/15 23:46	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	10/19/15 23:46	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/19/15 23:46	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/19/15 23:46	
1,2-Dichloroethane	ug/L	ND	1.0	10/19/15 23:46	
1,2-Dichloropropane	ug/L	ND	4.0	10/19/15 23:46	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/19/15 23:46	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/19/15 23:46	
1,3-Dichloropropane	ug/L	ND	1.0	10/19/15 23:46	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/19/15 23:46	
2,2-Dichloropropane	ug/L	ND	4.0	10/19/15 23:46	
2-Butanone (MEK)	ug/L	ND	5.0	10/19/15 23:46	
2-Chlorotoluene	ug/L	ND	1.0	10/19/15 23:46	
4-Chlorotoluene	ug/L	ND	1.0	10/19/15 23:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/19/15 23:46	
Acetone	ug/L	ND	20.0	10/19/15 23:46	
Allyl chloride	ug/L	ND	4.0	10/19/15 23:46	
Benzene	ug/L	ND	1.0	10/19/15 23:46	
Bromobenzene	ug/L	ND	1.0	10/19/15 23:46	
Bromochloromethane	ug/L	ND	1.0	10/19/15 23:46	
Bromodichloromethane	ug/L	ND	1.0	10/19/15 23:46	
Bromoform	ug/L	ND	4.0	10/19/15 23:46	
Bromomethane	ug/L	ND	4.0	10/19/15 23:46	
Carbon tetrachloride	ug/L	ND	1.0	10/19/15 23:46	
Chlorobenzene	ug/L	ND	1.0	10/19/15 23:46	
Chloroethane	ug/L	ND	4.0	10/19/15 23:46	
Chloroform	ug/L	ND	1.0	10/19/15 23:46	
Chloromethane	ug/L	ND	4.0	10/19/15 23:46	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/19/15 23:46	
cis-1,3-Dichloropropene	ug/L	ND	4.0	10/19/15 23:46	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

METHOD BLANK: 2111822

Matrix: Water

Associated Lab Samples: 10326135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	10/19/15 23:46	
Dibromomethane	ug/L	ND	4.0	10/19/15 23:46	
Dichlorodifluoromethane	ug/L	ND	1.0	10/19/15 23:46	
Dichlorofluoromethane	ug/L	ND	1.0	10/19/15 23:46	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	10/19/15 23:46	
Ethylbenzene	ug/L	ND	1.0	10/19/15 23:46	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/19/15 23:46	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/19/15 23:46	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/19/15 23:46	
Methylene Chloride	ug/L	ND	4.0	10/19/15 23:46	
n-Butylbenzene	ug/L	ND	1.0	10/19/15 23:46	
n-Propylbenzene	ug/L	ND	1.0	10/19/15 23:46	
Naphthalene	ug/L	ND	4.0	10/19/15 23:46	
p-Isopropyltoluene	ug/L	ND	1.0	10/19/15 23:46	
sec-Butylbenzene	ug/L	ND	1.0	10/19/15 23:46	
Styrene	ug/L	ND	1.0	10/19/15 23:46	
tert-Butylbenzene	ug/L	ND	1.0	10/19/15 23:46	
Tetrachloroethene	ug/L	ND	1.0	10/19/15 23:46	
Tetrahydrofuran	ug/L	ND	10.0	10/19/15 23:46	
Toluene	ug/L	ND	1.0	10/19/15 23:46	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/19/15 23:46	
trans-1,3-Dichloropropene	ug/L	ND	4.0	10/19/15 23:46	
Trichloroethene	ug/L	ND	0.40	10/19/15 23:46	
Trichlorofluoromethane	ug/L	ND	1.0	10/19/15 23:46	
Vinyl chloride	ug/L	ND	0.40	10/19/15 23:46	
Xylene (Total)	ug/L	ND	3.0	10/19/15 23:46	
1,2-Dichloroethane-d4 (S)	%.	97	75-125	10/19/15 23:46	
4-Bromofluorobenzene (S)	%.	100	75-125	10/19/15 23:46	
Toluene-d8 (S)	%.	98	75-125	10/19/15 23:46	

LABORATORY CONTROL SAMPLE: 2111823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.7	104	75-125	
1,1,1-Trichloroethane	ug/L	20	20.5	102	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	75-125	
1,1,2-Trichloroethane	ug/L	20	20.4	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.2	96	60-135	
1,1-Dichloroethane	ug/L	20	20.7	104	69-125	
1,1-Dichloroethene	ug/L	20	19.6	98	68-125	
1,1-Dichloropropene	ug/L	20	20.0	100	74-125	
1,2,3-Trichlorobenzene	ug/L	20	17.4	87	69-136	
1,2,3-Trichloropropane	ug/L	20	20.8	104	75-125	
1,2,4-Trichlorobenzene	ug/L	20	18.5	93	73-127	

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QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

LABORATORY CONTROL SAMPLE: 2111823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.3	97	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	49.8	100	65-145	
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	75-125	
1,2-Dichlorobenzene	ug/L	20	19.9	99	75-125	
1,2-Dichloroethane	ug/L	20	21.3	106	73-125	
1,2-Dichloropropane	ug/L	20	20.6	103	75-125	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	75-125	
1,3-Dichlorobenzene	ug/L	20	19.5	97	74-125	
1,3-Dichloropropane	ug/L	20	20.4	102	75-125	
1,4-Dichlorobenzene	ug/L	20	20.6	103	75-125	
2,2-Dichloropropane	ug/L	20	20.6	103	59-139	
2-Butanone (MEK)	ug/L	100	98.6	99	63-130	
2-Chlorotoluene	ug/L	20	19.8	99	72-125	
4-Chlorotoluene	ug/L	20	19.4	97	73-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.7	96	71-126	
Acetone	ug/L	100	103	103	69-131	
Allyl chloride	ug/L	20	19.3	97	67-125	
Benzene	ug/L	20	20.2	101	71-125	
Bromobenzene	ug/L	20	20.2	101	75-125	
Bromochloromethane	ug/L	20	21.0	105	75-125	
Bromodichloromethane	ug/L	20	20.8	104	75-125	
Bromoform	ug/L	20	19.6	98	70-125	
Bromomethane	ug/L	20	17.1	86	30-150	
Carbon tetrachloride	ug/L	20	20.0	100	75-126	
Chlorobenzene	ug/L	20	20.6	103	75-125	
Chloroethane	ug/L	20	20.4	102	65-134	
Chloroform	ug/L	20	21.1	106	75-125	
Chloromethane	ug/L	20	15.3	77	39-150	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	72-125	
cis-1,3-Dichloropropene	ug/L	20	19.7	99	75-125	
Dibromochloromethane	ug/L	20	20.1	101	75-125	
Dibromomethane	ug/L	20	20.6	103	75-125	
Dichlorodifluoromethane	ug/L	20	15.8	79	50-134	
Dichlorofluoromethane	ug/L	20	20.9	104	69-125	
Diethyl ether (Ethyl ether)	ug/L	20	21.0	105	72-125	
Ethylbenzene	ug/L	20	19.7	99	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.6	98	70-138	
Isopropylbenzene (Cumene)	ug/L	20	19.8	99	75-125	
Methyl-tert-butyl ether	ug/L	20	20.4	102	73-125	
Methylene Chloride	ug/L	20	21.4	107	73-125	
n-Butylbenzene	ug/L	20	18.3	91	72-133	
n-Propylbenzene	ug/L	20	19.1	96	72-126	
Naphthalene	ug/L	20	17.0	85	70-127	
p-Isopropyltoluene	ug/L	20	19.5	97	72-132	
sec-Butylbenzene	ug/L	20	19.2	96	73-132	
Styrene	ug/L	20	20.6	103	75-125	
tert-Butylbenzene	ug/L	20	19.6	98	73-128	

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QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

LABORATORY CONTROL SAMPLE: 2111823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	20.2	101	74-125	
Tetrahydrofuran	ug/L	200	212	106	62-133	
Toluene	ug/L	20	19.7	98	74-125	
trans-1,2-Dichloroethene	ug/L	20	21.2	106	69-125	
trans-1,3-Dichloropropene	ug/L	20	19.6	98	75-125	
Trichloroethene	ug/L	20	21.1	106	75-125	
Trichlorofluoromethane	ug/L	20	20.2	101	74-127	
Vinyl chloride	ug/L	20	19.1	96	66-132	
Xylene (Total)	ug/L	60	59.7	99	75-125	
1,2-Dichloroethane-d4 (S)	%.			100	75-125	
4-Bromofluorobenzene (S)	%.			98	75-125	
Toluene-d8 (S)	%.			97	75-125	

MATRIX SPIKE SAMPLE: 2112835

Parameter	Units	10325965004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	18.5	92	70-138	
1,1,1-Trichloroethane	ug/L	ND	20	19.4	97	55-150	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.6	88	64-140	
1,1,2-Trichloroethane	ug/L	ND	20	17.9	89	67-137	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20.7	103	51-150	
1,1-Dichloroethane	ug/L	ND	20	18.4	92	49-150	
1,1-Dichloroethene	ug/L	ND	20	18.3	91	40-150	
1,1-Dichloropropene	ug/L	ND	20	17.4	87	50-150	
1,2,3-Trichlorobenzene	ug/L	ND	20	14.9	75	59-148	
1,2,3-Trichloropropane	ug/L	ND	20	18.7	93	65-141	
1,2,4-Trichlorobenzene	ug/L	ND	20	15.9	80	61-140	
1,2,4-Trimethylbenzene	ug/L	ND	20	16.9	85	58-141	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	43.4	87	53-150	
1,2-Dibromoethane (EDB)	ug/L	ND	20	18.1	90	65-137	
1,2-Dichlorobenzene	ug/L	ND	20	17.1	86	66-133	
1,2-Dichloroethane	ug/L	ND	20	17.3	86	54-138	
1,2-Dichloropropane	ug/L	ND	20	18.0	90	62-138	
1,3,5-Trimethylbenzene	ug/L	ND	20	17.0	85	58-140	
1,3-Dichlorobenzene	ug/L	ND	20	16.9	84	66-132	
1,3-Dichloropropane	ug/L	ND	20	18.0	90	66-134	
1,4-Dichlorobenzene	ug/L	ND	20	17.4	87	65-129	
2,2-Dichloropropane	ug/L	ND	20	16.8	84	40-150	
2-Butanone (MEK)	ug/L	ND	100	83.2	83	51-147	
2-Chlorotoluene	ug/L	ND	20	17.1	86	58-147	
4-Chlorotoluene	ug/L	ND	20	16.8	84	64-138	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	85.5	86	59-143	
Acetone	ug/L	ND	100	96.2	96	63-147	
Allyl chloride	ug/L	ND	20	16.8	84	45-150	
Benzene	ug/L	ND	20	17.4	87	53-139	

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QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

MATRIX SPIKE SAMPLE:	2112835						
Parameter	Units	10325965004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/L	ND	20	17.8	89	66-136	
Bromoform	ug/L	ND	20	17.2	86	64-136	
Bromodichloromethane	ug/L	ND	20	17.5	88	66-138	
Bromochloromethane	ug/L	ND	20	17.0	85	59-136	
Bromomethane	ug/L	ND	20	14.2	71	30-150	
Carbon tetrachloride	ug/L	ND	20	18.6	93	56-150	
Chlorobenzene	ug/L	ND	20	18.0	90	65-133	
Chloroethane	ug/L	ND	20	18.9	94	48-150	
Chloroform	ug/L	ND	20	18.7	94	57-145	
Chloromethane	ug/L	ND	20	13.9	70	30-150	
cis-1,2-Dichloroethene	ug/L	ND	20	18.3	91	49-150	
cis-1,3-Dichloropropene	ug/L	ND	20	17.3	87	64-130	
Dibromochloromethane	ug/L	ND	20	17.5	87	68-138	
Dibromomethane	ug/L	ND	20	18.3	92	67-134	
Dichlorodifluoromethane	ug/L	ND	20	16.9	85	45-150	
Dichlorofluoromethane	ug/L	ND	20	18.9	95	54-150	
Diethyl ether (Ethyl ether)	ug/L	ND	20	17.3	87	50-145	
Ethylbenzene	ug/L	ND	20	17.4	87	55-139	
Hexachloro-1,3-butadiene	ug/L	ND	20	17.1	86	49-150	
Isopropylbenzene (Cumene)	ug/L	ND	20	17.6	88	64-142	
Methyl-tert-butyl ether	ug/L	ND	20	17.7	88	62-129	
Methylene Chloride	ug/L	ND	20	17.8	89	57-132	
n-Butylbenzene	ug/L	ND	20	16.0	80	55-150	
n-Propylbenzene	ug/L	ND	20	16.8	84	59-142	
Naphthalene	ug/L	ND	20	14.5	73	51-150	
p-Isopropyltoluene	ug/L	ND	20	16.8	84	60-149	
sec-Butylbenzene	ug/L	ND	20	16.8	84	60-150	
Styrene	ug/L	ND	20	18.3	91	68-134	
tert-Butylbenzene	ug/L	ND	20	17.2	86	62-146	
Tetrachloroethene	ug/L	ND	20	18.4	92	50-150	
Tetrahydrofuran	ug/L	ND	200	184	92	59-145	
Toluene	ug/L	ND	20	17.9	89	52-148	
trans-1,2-Dichloroethene	ug/L	ND	20	18.4	92	45-150	
trans-1,3-Dichloropropene	ug/L	ND	20	17.4	87	68-132	
Trichloroethene	ug/L	ND	20	19.3	96	52-150	
Trichlorofluoromethane	ug/L	ND	20	19.8	99	55-150	
Vinyl chloride	ug/L	ND	20	17.3	87	43-150	
Xylene (Total)	ug/L	ND	60	52.9	88	54-144	
1,2-Dichloroethane-d4 (S)	%.				96	75-125	
4-Bromofluorobenzene (S)	%.				98	75-125	
Toluene-d8 (S)	%.				98	75-125	

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QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

SAMPLE DUPLICATE: 2112836

Parameter	Units	10325965005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropene	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropene	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	0.67J	.75J		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

SAMPLE DUPLICATE: 2112836

Parameter	Units	10325965005 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	96	94		2	
4-Bromofluorobenzene (S)	%.	98	100		2	
Toluene-d8 (S)	%.	98	97		1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

QC Batch:	OEXT/31274	Analysis Method:	EPA 8270D by SIM
QC Batch Method:	EPA 3510C	Analysis Description:	8270D PAH by SIM MSSV
Associated Lab Samples: 10326135001			

METHOD BLANK: 2111372 Matrix: Water

Associated Lab Samples: 10326135001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.040	10/19/15 11:47	
Acenaphthylene	ug/L	ND	0.040	10/19/15 11:47	
Anthracene	ug/L	ND	0.040	10/19/15 11:47	
Benzo(a)anthracene	ug/L	ND	0.040	10/19/15 11:47	
Benzo(a)pyrene	ug/L	ND	0.040	10/19/15 11:47	
Benzo(b)fluoranthene	ug/L	ND	0.040	10/19/15 11:47	
Benzo(g,h,i)perylene	ug/L	ND	0.040	10/19/15 11:47	
Benzo(k)fluoranthene	ug/L	ND	0.040	10/19/15 11:47	
Chrysene	ug/L	ND	0.040	10/19/15 11:47	
Dibenz(a,h)anthracene	ug/L	ND	0.040	10/19/15 11:47	
Fluoranthene	ug/L	ND	0.040	10/19/15 11:47	
Fluorene	ug/L	ND	0.040	10/19/15 11:47	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	10/19/15 11:47	
Naphthalene	ug/L	ND	0.040	10/19/15 11:47	
Phenanthrene	ug/L	ND	0.040	10/19/15 11:47	
Pyrene	ug/L	ND	0.040	10/19/15 11:47	
2-Fluorobiphenyl (S)	%.	85	52-125	10/19/15 11:47	
p-Terphenyl-d14 (S)	%.	83	62-125	10/19/15 11:47	

LABORATORY CONTROL SAMPLE: 2111373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	1	0.86	86	44-125	
Acenaphthylene	ug/L	1	0.84	84	44-125	
Anthracene	ug/L	1	1.0	101	55-125	
Benzo(a)anthracene	ug/L	1	0.79	79	56-125	
Benzo(a)pyrene	ug/L	1	0.85	85	61-125	
Benzo(b)fluoranthene	ug/L	1	0.82	82	60-125	
Benzo(g,h,i)perylene	ug/L	1	0.72	72	53-125	
Benzo(k)fluoranthene	ug/L	1	0.92	92	59-125	
Chrysene	ug/L	1	0.85	85	61-125	
Dibenz(a,h)anthracene	ug/L	1	0.71	71	51-125	
Fluoranthene	ug/L	1	0.85	85	64-125	
Fluorene	ug/L	1	0.91	91	52-125	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.71	71	54-125	
Naphthalene	ug/L	1	0.91	91	35-125	
Phenanthrene	ug/L	1	0.92	92	55-125	
Pyrene	ug/L	1	0.91	91	59-125	
2-Fluorobiphenyl (S)	%.			83	52-125	
p-Terphenyl-d14 (S)	%.			86	62-125	

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QUALITY CONTROL DATA

Project: BERS#34160024; EPA TO 2012 Tow

Pace Project No.: 10326135

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2111376		2111377		MSD % Rec	% Rec Limits	Max	
		10326174004		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result			RPD RPD	RPD RPD
		Result	Conc.							Qual	
Acenaphthene	ug/L	ND	1	1	0.78	0.78	76	76	44-125	0	30
Acenaphthylene	ug/L	ND	1	1	0.75	0.80	74	79	52-125	7	30
Anthracene	ug/L	ND	1	1	0.96	0.98	94	96	56-125	2	30
Benzo(a)anthracene	ug/L	ND	1	1	0.77	0.80	75	79	51-125	5	30
Benzo(a)pyrene	ug/L	ND	1	1	0.75	0.80	74	78	64-125	6	30
Benzo(b)fluoranthene	ug/L	ND	1	1	0.76	0.81	75	79	61-125	6	30
Benzo(g,h,i)perylene	ug/L	ND	1	1	0.62	0.67	61	66	53-125	8	30
Benzo(k)fluoranthene	ug/L	ND	1	1	0.79	0.82	78	80	59-125	3	30
Chrysene	ug/L	ND	1	1	0.83	0.85	82	84	56-125	2	30
Dibenz(a,h)anthracene	ug/L	ND	1	1	0.61	0.65	60	64	42-125	7	30
Fluoranthene	ug/L	ND	1	1	0.81	0.84	79	83	54-125	4	30
Fluorene	ug/L	ND	1	1	0.83	0.84	81	82	45-125	1	30
Indeno(1,2,3-cd)pyrene	ug/L	ND	1	1	0.59	0.64	58	62	44-125	8	30
Naphthalene	ug/L	ND	1	1	0.83	0.83	81	82	51-125	0	30
Phenanthrene	ug/L	ND	1	1	0.88	0.89	86	87	61-125	1	30
Pyrene	ug/L	ND	1	1	0.88	0.90	86	88	63-125	3	30
2-Fluorobiphenyl (S)	%.						73	72	52-125		
p-Terphenyl-d14 (S)	%.						81	84	62-125		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BERS#34160024; EPA TO 2012 Tow
Pace Project No.: 10326135

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BERS#34160024; EPA TO 2012 Tow
 Pace Project No.: 10326135

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10326135001	1285 Hakell Lake Landing	EPA 3010	MPRP/58907	EPA 6010	ICP/25724
10326135001	1285 Hakell Lake Landing	EPA 3510C	OEXT/31274	EPA 8270D by SIM	MSSV/13277
10326135001	1285 Hakell Lake Landing	EPA 8260B	MSV/33481		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

LO324135

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company: Bristol Environmental Sv.
Address: 111 W 16th Ave. 3rd Floor
Anchorage, AK 99501
Email To: Julie Sharp-Dahl
Phone: 907-743-9394 Fax: 907-743-9394
Requested Due Date/TAT:
10 business days

Report To: Julie Sharp-Dahl
Copy To: Lesa Nelson

Purchase Order No.:
Project Name: Tower Standard LUST site
Project Number: BERS #34160024; EPA ID 7012

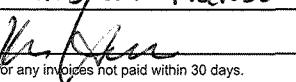
Attention: Julie Sharp-Dahl
Company Name: Bristol Environmental Sv.
Address: see Client Info
Pace Quote Reference: 0001964
Pace Project Manager: Tim Sandager
Pace Profile #:

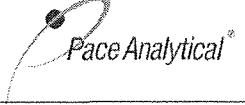
Page:	1	of	1
1715042			
REGULATORY AGENCY			
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER	
<input checked="" type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER	
Site Location	W1		
STATE:	WI		

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE		SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.									
		Drinking Water	DW		Water	WT	Waste Water	WW			Product	P	Soil/Solid	SL	Oil	OL	Wipe	WP	Air	AR	Other							
MATRIX CODE (see valid codes to left)	SAMPLE CODE (see valid codes to left)	DATE	TIME	DATE	TIME	COMPOSITE START		COMPOSITE END/GRAB																				
1	1285 Haskell Lake Landing	WT G			10/12	11:00			X	X	X	X	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ SO ₃	Methanol	Other	Analysis Test ↑	Cd	Pl	VDC	MTBE	EDDS	PAH	X X X X X X	801
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
	Kristen Hanson	10/13		Kas - PACE	10-14-15	3/229 ph 10-14	3.6	Y Y Y

ORIGINAL		SAMPLER NAME AND SIGNATURE			
		PRINT Name of SAMPLER: Kristen Hanson			
		SIGNATURE of SAMPLER: 		DATE Signed (MM/DD/YY): 10/13/2015	
Temp in °C	Received on Ice (Y/N)	Custody Sealed	Sealed Cooler (Y/N)	Samples intact (Y/N)	

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 23Feb2015 Page 1 of 1
	Document No.: F-MN-L-213-rev.13	Issuing Authority: Pace Minnesota Quality Office

**Sample Condition
Upon Receipt**

Client Name:

Bristol Env. Sv.

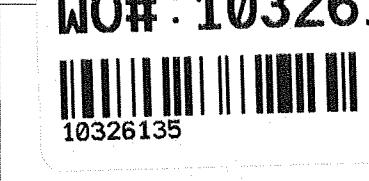
Project #:

WO# : 10326135

Courier:

 FedEx UPS USPS Client
 Commercial Pace SpeeDee Other: _____

Tracking Number:



Custody Seal on Cooler/Box Present?

 Yes No

Seals Intact?

 Yes No

Optional: Proj. Due Date: Proj. Name:

Packing Material:

 Bubble Wrap Bubble Bags None Other: _____
Temp Blank? Yes No

Thermometer Used:

 B88A9130516413 Type of Ice: Wet Blue None Samples on ice, cooling process has begun
 B88A0143310098

Cooler Temp Read (°C):

3.5

Cooler Temp Corrected (°C):

*3.6*Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C

Correction Factor: *+0.1* Date and Initials of Person Examining Contents: *Kh 10-14-15*USDA Regulated Soil (N/A, water sample)Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)? Yes No including Hawaii and Puerto Rico? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes Date/Time/ID/Analysis Matrix:	<i>WT</i>		
All containers needing acid/base preservation have been checked?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	<input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample #	<i>111</i>
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed:	Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review: *J. Johnson*Date: *10/15/16*

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).